AP&L

White Bluff Steam Electric Station
Plant Performance Group

December 2, 1992

Inter-Office Correspondence

TO: Mr. Mickey Cox

FROM: Dennis A. Wall

SUBJECT: 1992 Heat Rate Tests - White Bluff Units

Analysis of the subject tests has been completed, and the results are attached for your review. As in past years, the tests were conducted in accordance with the Entergy Heat Rate Test Procedure, and all co-owners were notified in advance so they could witness the tests. Only AECC chose to do so.

I believe the attached results are correct and representative of the present condition of these units. It is my recommendation that:

1. These results should be submitted to the System Operations Center, in order to update the economic dispatch curves for these units;

2. These results should be submitted to Mr. Alan Hardy, State Director of Bulk Power Marketing, for use in co-owner billing and related matters.

If you agree with my recommendations, please forward copies of the attachments to the parties mentioned above. If you disagree, please let me know so that we may otherwise resolve this issue. My telephone extension is 7021.

DAW/dw
Attachments

cc: Mr. Max Halbert
Mr. Rick Perryman
Dr. Dale Swindle
Mr. Ron House
Mr. Roger Lawson

1992 Heat Rate Tests' Information
White Bluff SES Unit 1

Summer Corrected Net Generation	Heat Input
(MW)	(MMBtu/Hr)
144.14	2176.40
149.18	2227.80
236.26	3125.70
236.69	3142.80
333.00	3933.60
341.61	4037.90
429.51	4785.60
437.02	4791.30
519.98	5717.00
530.77	5721.40
607.67	6445.70
609.51	6417.30
707.54	7575.50
712.33	7398.60
792.43	8244.90
792.90	8369.70

Input/OutPut Equation:

Heat Input = $1008.9797 + 8.406449 \times NetMW + 0.000983 \times NetMW^2$

= MMBtu/Hr

Incremental Heat Rate Equation:

Incremental Heat Rate = $(8.406449 + 0.001966 \times NetMW) \times 1000$

= Btu/Net KwH

Net Heat Rate Equation:

Net Heat Rate = $(1008.9797 + 8.406449 \times NetMW + 0.000983 \times NetMW^2) \times 1000/NetMW$

= Btu/Net KwH

1992 Heat Rate Tests' Information
White Bluff SES Unit 2

Summer Corrected Net Generation	Heat Input
(MW)	(MMBtu/Hr)
172.15	2315.30
175.64	2320.70
255.07	3019.50
255.88	3015.70
354.48	4010.00
360.93	4010.10
450.76	4902.00
454.69	4922.50
548.60	5769.90
550.80	5746.70
659.57	6853.40
666.80	6832.20
737.57	7530.90
748.18	7620.30
824.33	8528.00
829.40	8559.60

Input/OutPut Equation:

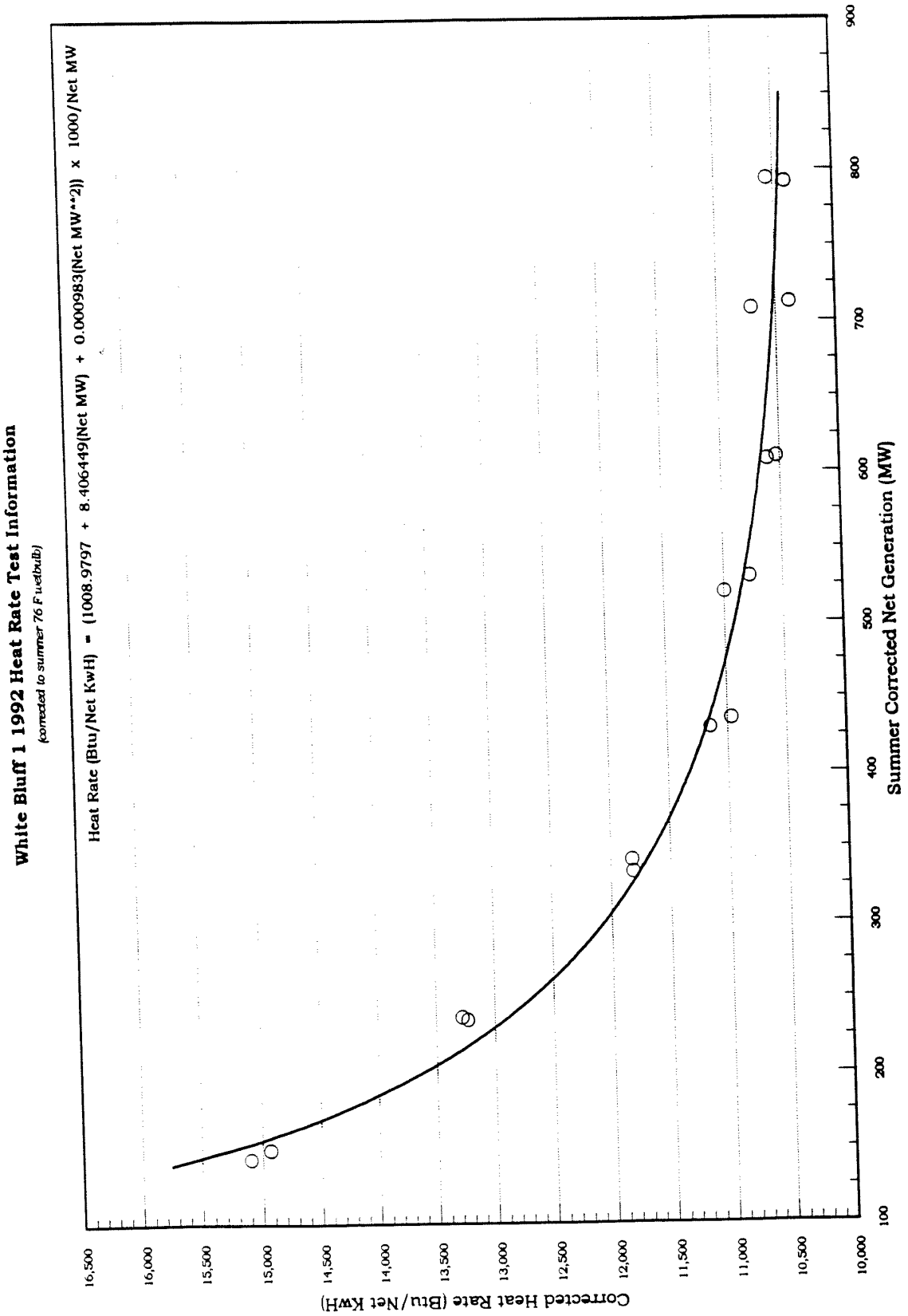
Heat Input = 811.6667 + 8.529974 x NetMW + 0.000904 x NetMW^2
= MMBtu/Hr

Incremental Heat Rate Equation:

Incremental Heat Rate = (8.529974 + 0.001808 x NetMW) x 1000
= Btu/Net KwH

Net Heat Rate Equation:

Net Heat Rate = (811.6667 + 8.529974 x NetMW + 0.000904 x NetMW^2) x 1000/NetMW
= Btu/Net KwH



Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

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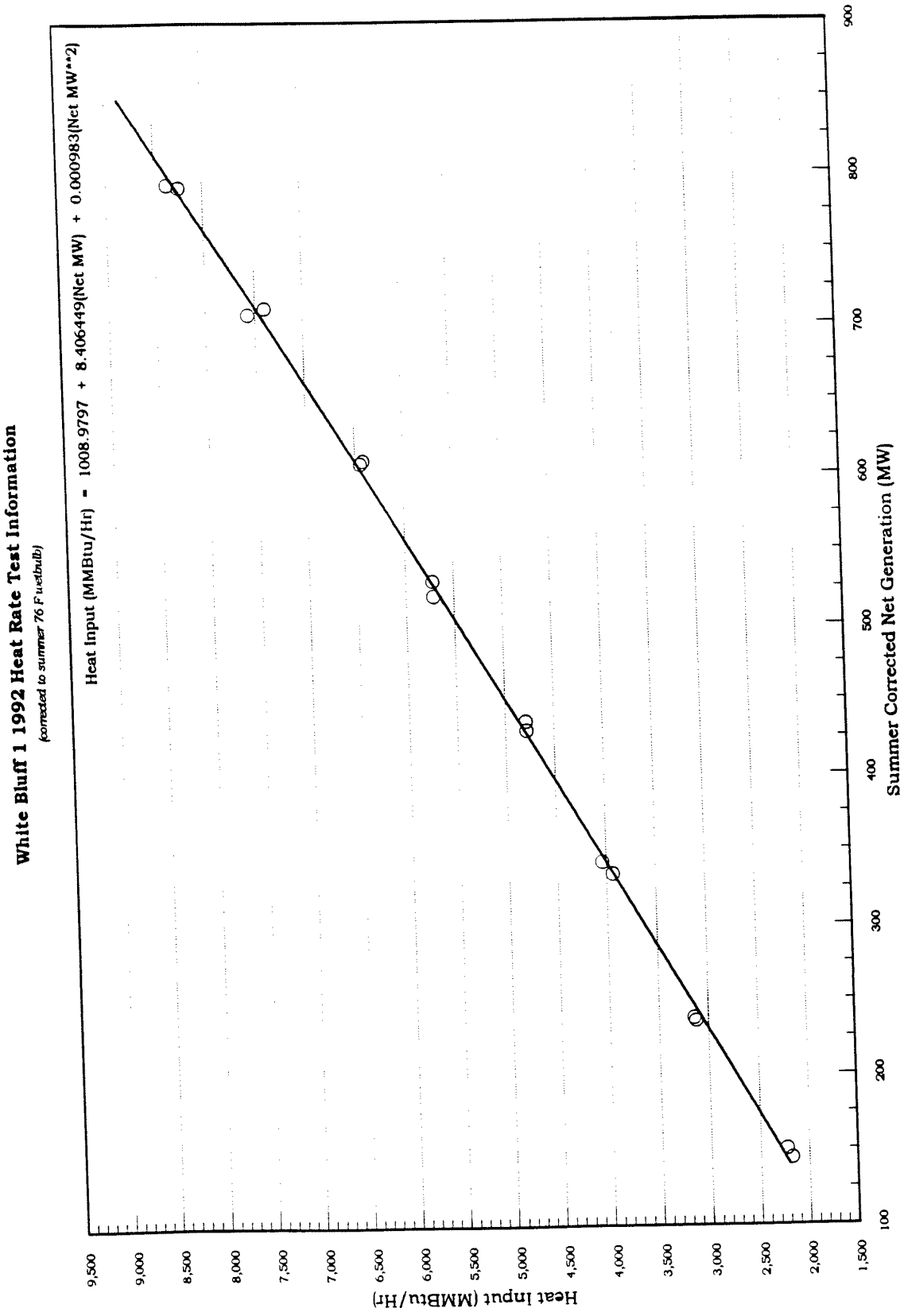

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Confidential Business Information

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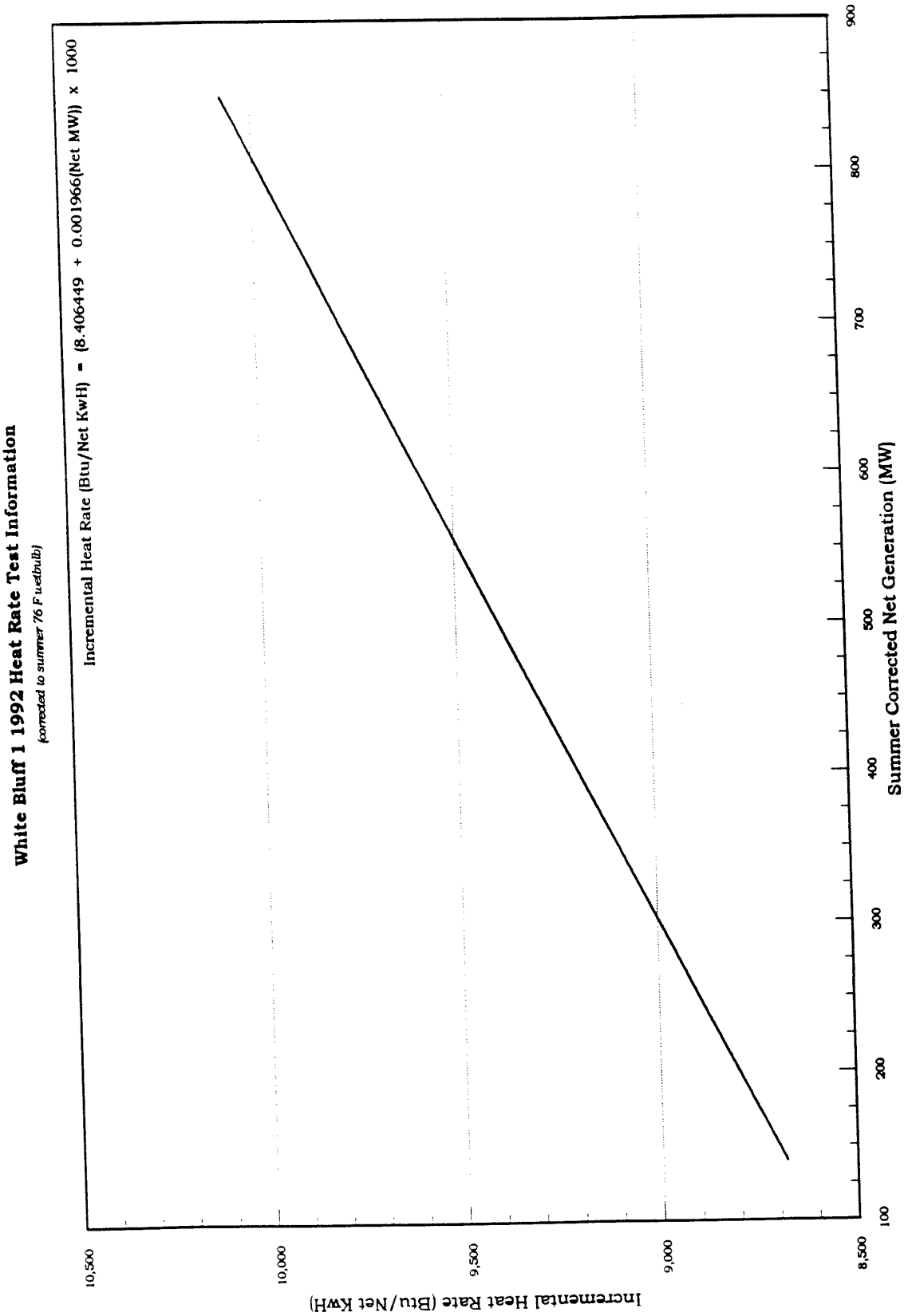

Confidential Business Information

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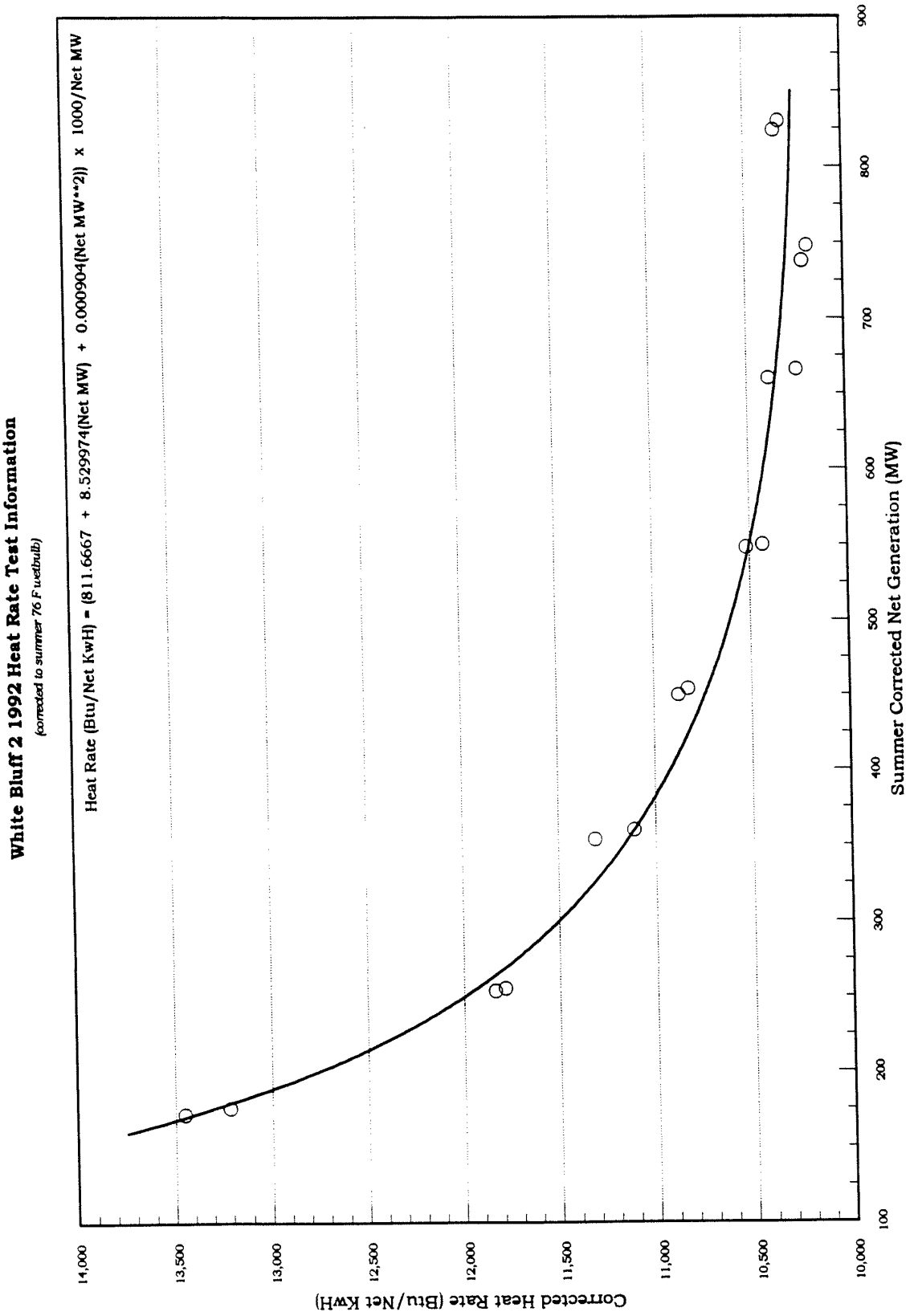

Confidential Business Information

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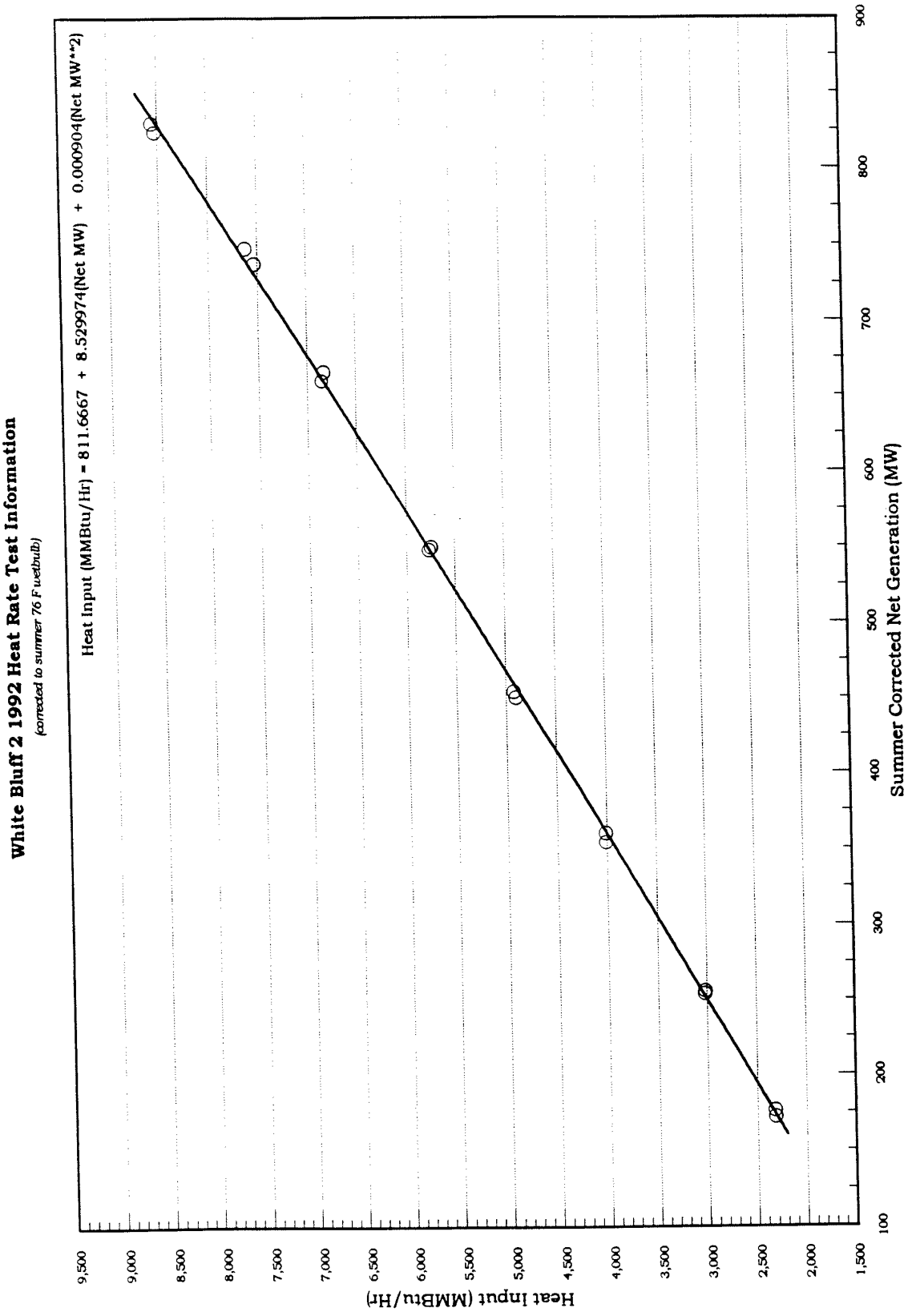
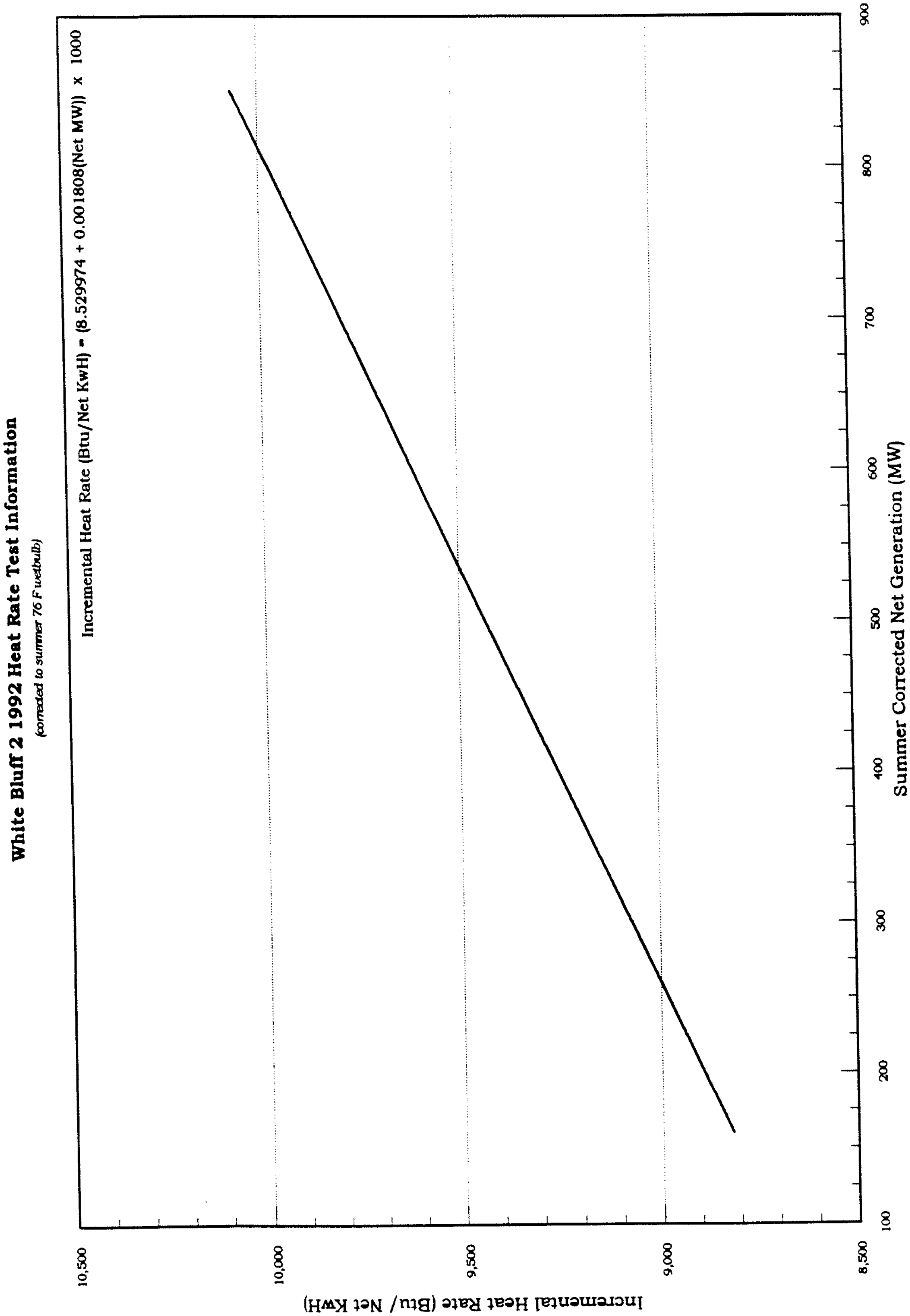




ENTERGY

June 28, 1993

Inter-Office Correspondence

TO: Mr. Mickey Cox

FROM: Dennis A. Wall
Senior Engineer, Diagnostic Services Section

SUBJECT: **1993 Heat Rate Test Results - White Bluff Unit 1**

White Bluff Unit 1 was tested the week of May 16. The calculations and evaluation of results have just now been completed, and the results are attached for your review. For your convenience, 1992's results are also included. As always, these tests were run in an unbiased manner in accordance with the Entergy test procedure. Co-owners were notified prior to the tests, and engineers from the Arkansas Electric Co-operative Corporation were present for every test.

The significant difference between the 1992 and 1993 curves is primarily explained by the fact that the unit is operating with the "A" train of high pressure feedwater heaters isolated due to a tube leak in the 2A heater. This heater is scheduled for replacement during the Fall, 1993 outage, after which it would be appropriate to retest this unit with all heaters in service. **Until then, it is my recommendation that the 1993 results be implemented immediately for dispatch and co-owner billing purposes, since they best represent the present condition of the unit.**

If you need any additional information, or if you have any comments, please do not hesitate to contact me at telephone extension 7021.

DAW/dw
Attachments

Dennis A. Wall

cc: Mr. Max Halbert
Mr. Ron House
Mr. Art Gilreath
Mr. William Phillips
Mr. Alan Hardy
Mr. John Harrison
Mr. Gary Davis

1993 Heat Rate Tests' Information
White Bluff SES Unit 1

Summer Corrected Net Generation	Heat Input
(MW)	(MMBtu/Hr)
150.12	2252.60
150.91	2245.50
239.13	3062.10
239.67	3079.10
333.87	3936.40
338.84	3894.90
439.54	4903.20
439.84	4856.50
545.93	5900.50
546.36	5897.10
633.85	6813.50
641.74	6853.00
736.30	7962.90
737.21	8047.20
784.42	8484.40
790.07	8559.20

Input/OutPut Equation:

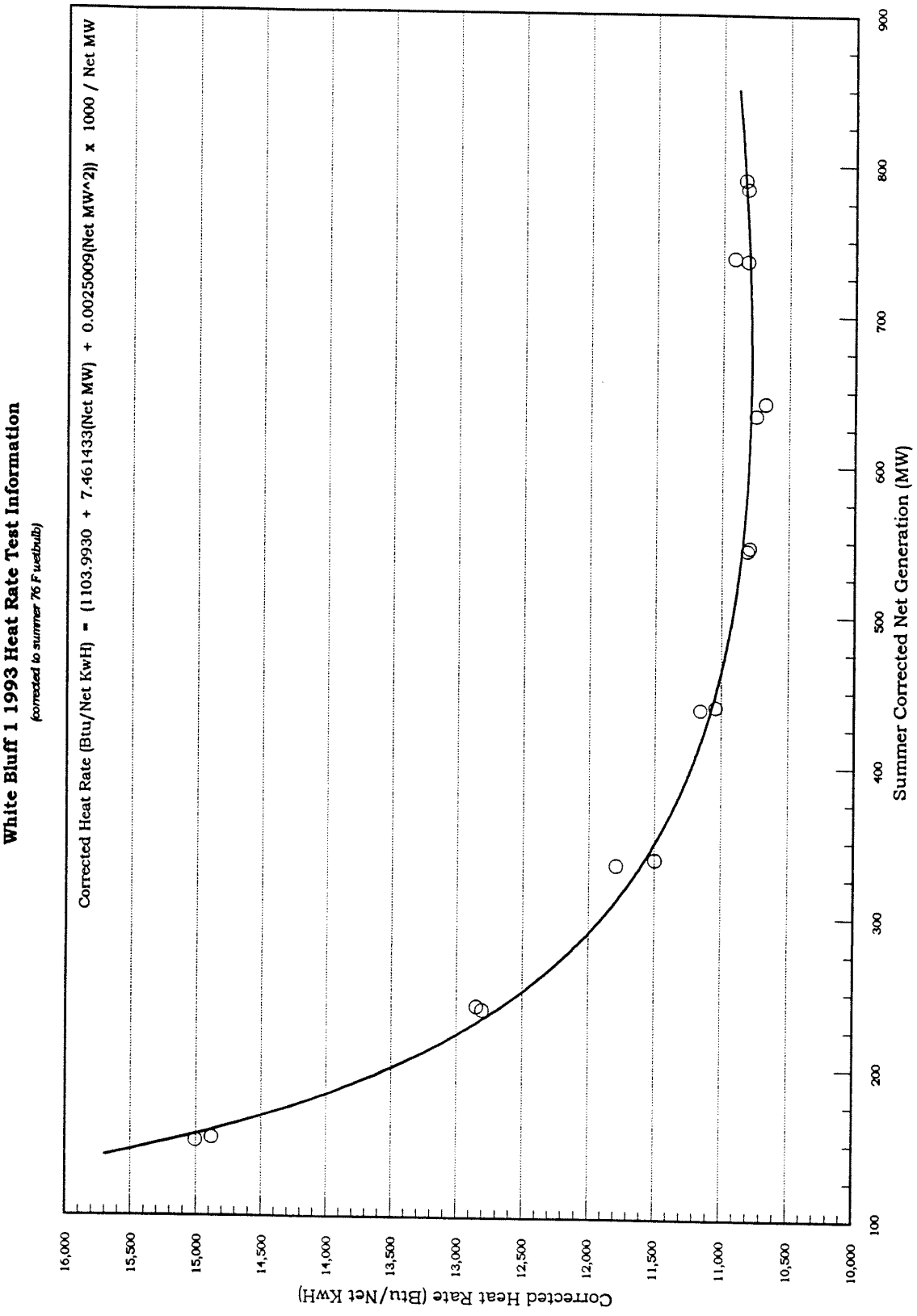
Heat Input = $1103.9930 + 7.461433 \times NetMW + 0.002501 \times NetMW^2$
= MMBtu/Hr

Incremental Heat Rate Equation:

Incremental Heat Rate = $(7.461433 + 0.005002 \times NetMW) \times 1000$
= Btu/Net KwH

Net Heat Rate Equation:

Net Heat Rate = $(1103.9930 + 7.461433 \times NetMW + 0.002501 \times NetMW^2) \times 1000/NetMW$
= Btu/Net KwH



Confidential Business Information

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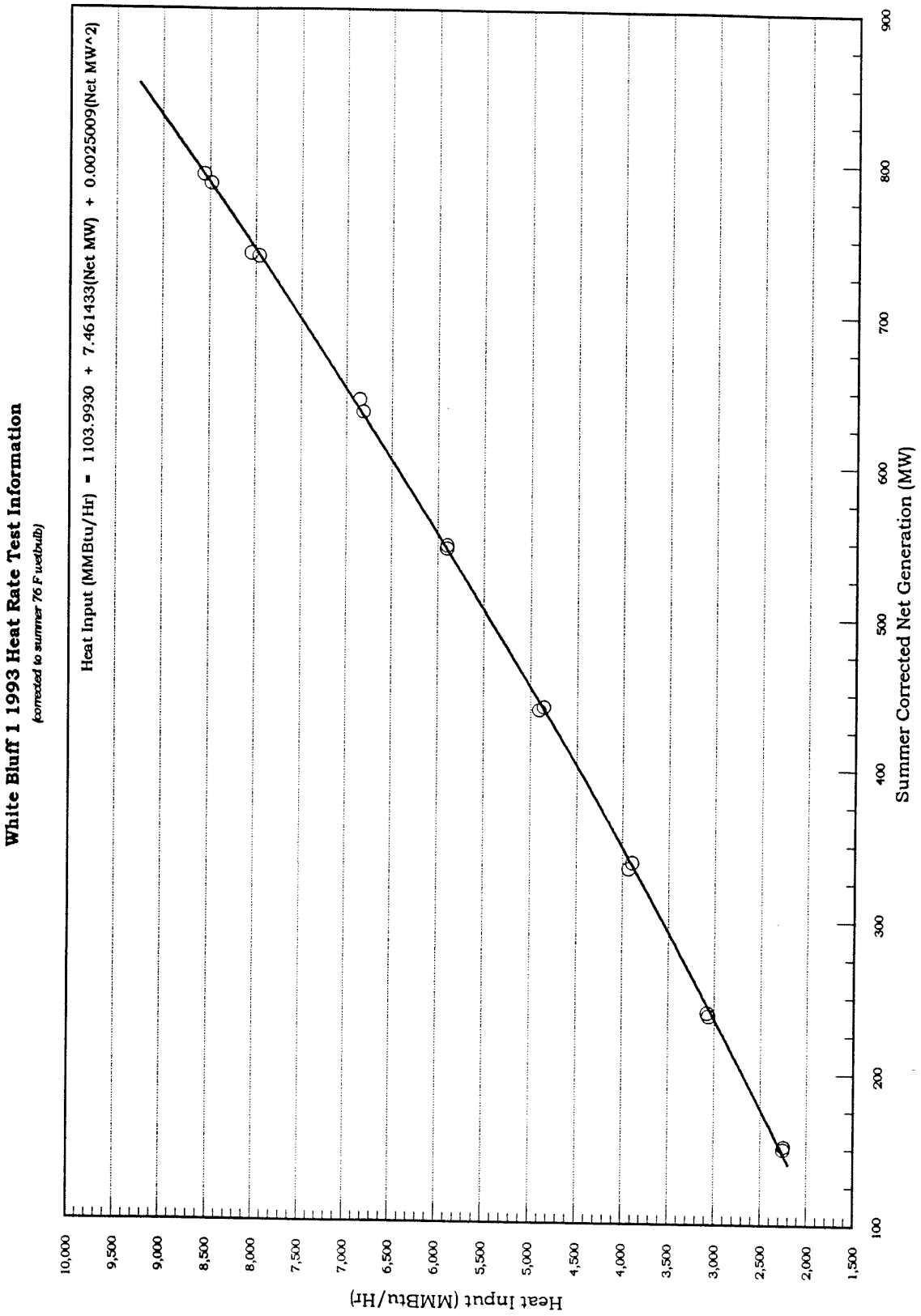

Confidential Business Information

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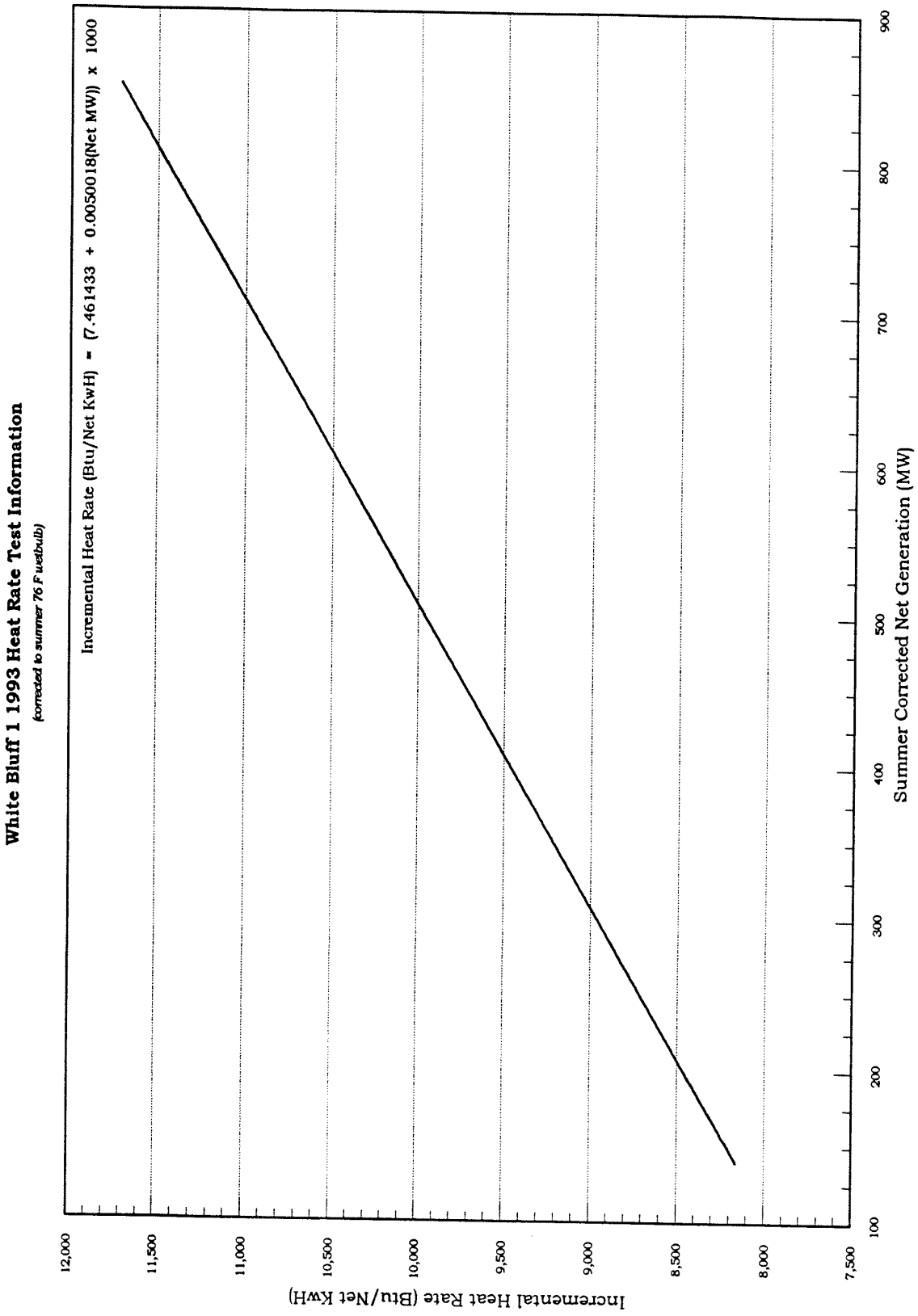


ENTERGY

August 16, 1993

Inter-Office Correspondence

TO: Mr. Mickey Cox

FROM: Dennis A. Wall
Senior Engineer, Diagnostic Services Section

SUBJECT: **1993 Heat Rate Test Results - White Bluff Unit 2**

White Bluff Unit 2 was tested the week of June 21. One test load was repeated on July 14. The calculations, evaluation, and review of results have now been completed, and the results are attached for your review. For your convenience, a graphical comparison with 1992's results are also included. As always, these tests were run in an unbiased manner in accordance with the Entergy test procedure. Co-owners were notified prior to the tests, and engineers from the Arkansas Electric Co-operative Corporation were present.

Although slight, there is some difference between the 1992 and 1993 curves. **It is my recommendation that the 1993 results be implemented immediately for dispatch and co-owner billing purposes, since they best represent the present condition of the unit.**

If you need any additional information, or if you have any comments, please do not hesitate to contact me at telephone extension 7021.

DAW/dw
Attachments

Dennis A. Wall

cc: Mr. Max Halbert
Mr. Ron House
Mr. Art Gilreath
Mr. William Phillips
Mr. Alan Hardy
Mr. John Harrison
Mr. Gary Davis

1993 Heat Rate Tests' Information
White Bluff SES Unit 2

Summer Corrected Net Generation	Heat Input
(MW)	(MMBtu/Hr)
164.96	2253.00
165.97	2245.10
255.32	3007.00
260.63	3044.70
364.01	4050.50
366.32	4068.70
462.78	4941.80
465.00	4920.50
558.13	5830.70
558.64	5815.80
654.56	6734.00
654.81	6729.70
753.60	7798.60
756.57	7809.60
811.60	8329.10
814.39	8338.20

Input/OutPut Equation:

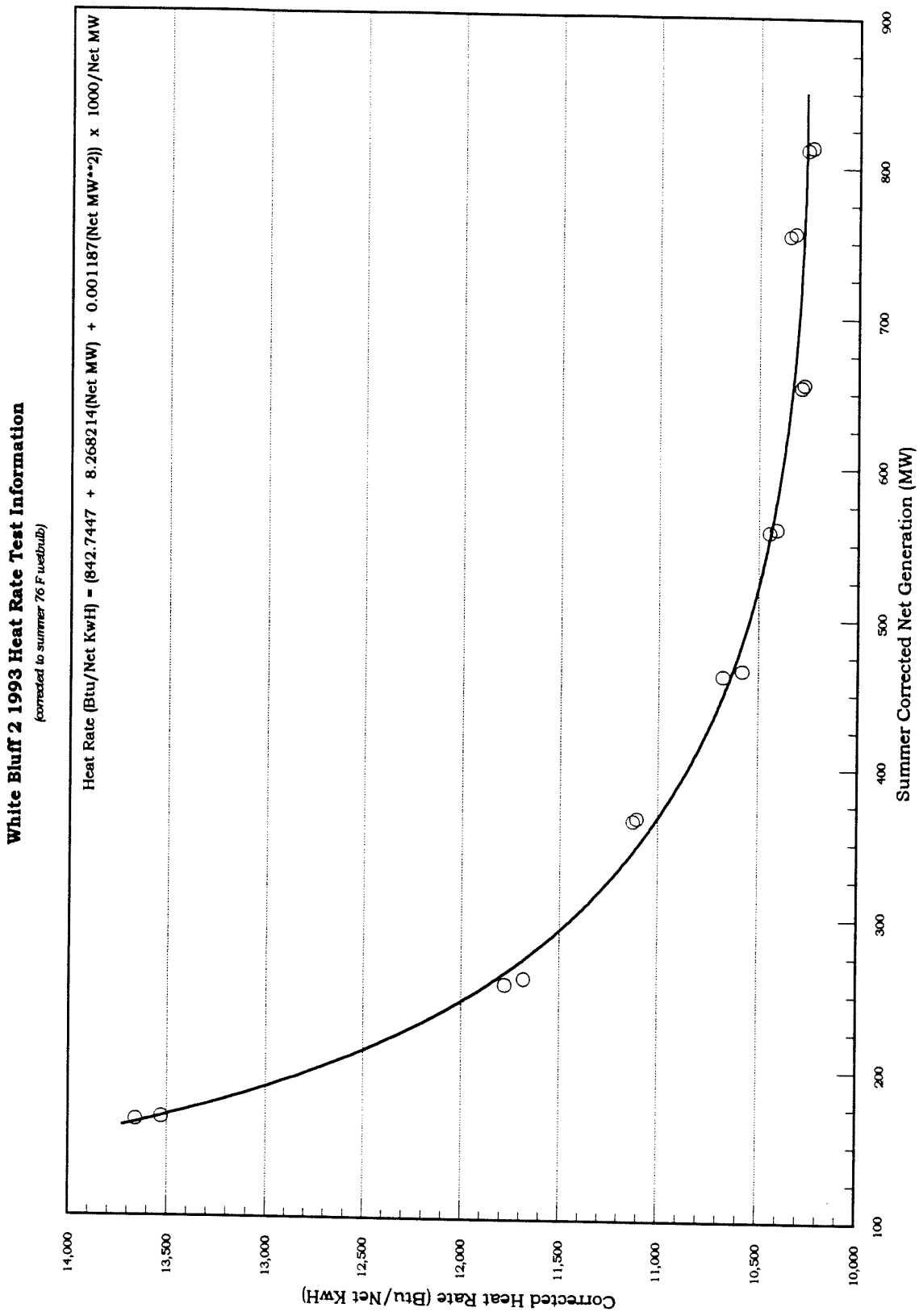
Heat Input = $842.7447 + 8.268214 \times NetMW + 0.001187 \times NetMW^2$
= MMBtu/Hr

Incremental Heat Rate Equation:

Incremental Heat Rate = $(8.268214 + 0.002374 \times NetMW) \times 1000$
= Btu/Net KwH

Net Heat Rate Equation:

Net Heat Rate = $(842.7447 + 8.268214 \times NetMW + 0.001187 \times NetMW^2) \times 1000/NetMW$
= Btu/Net KwH



Confidential Business Information

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

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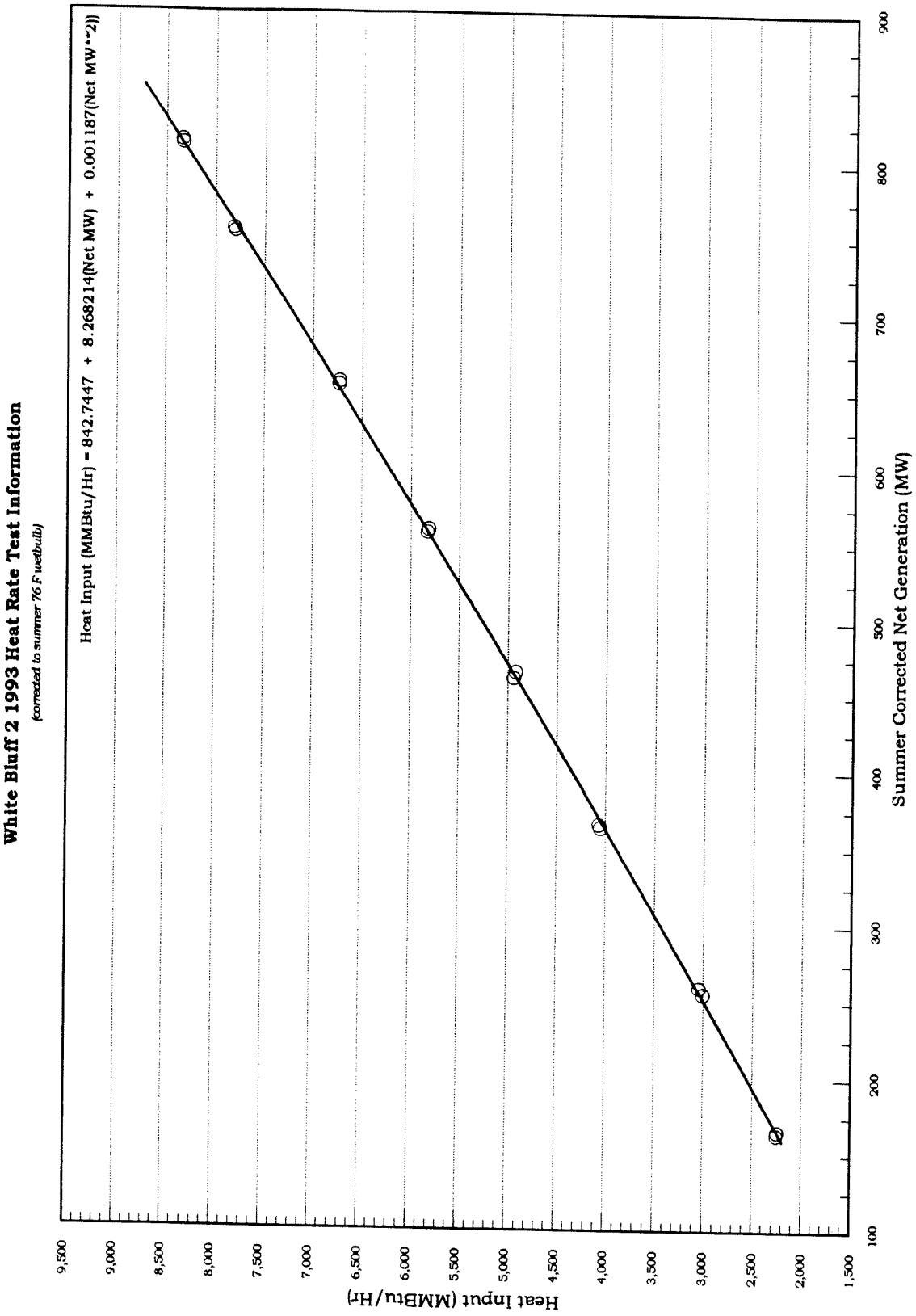

Confidential Business Information

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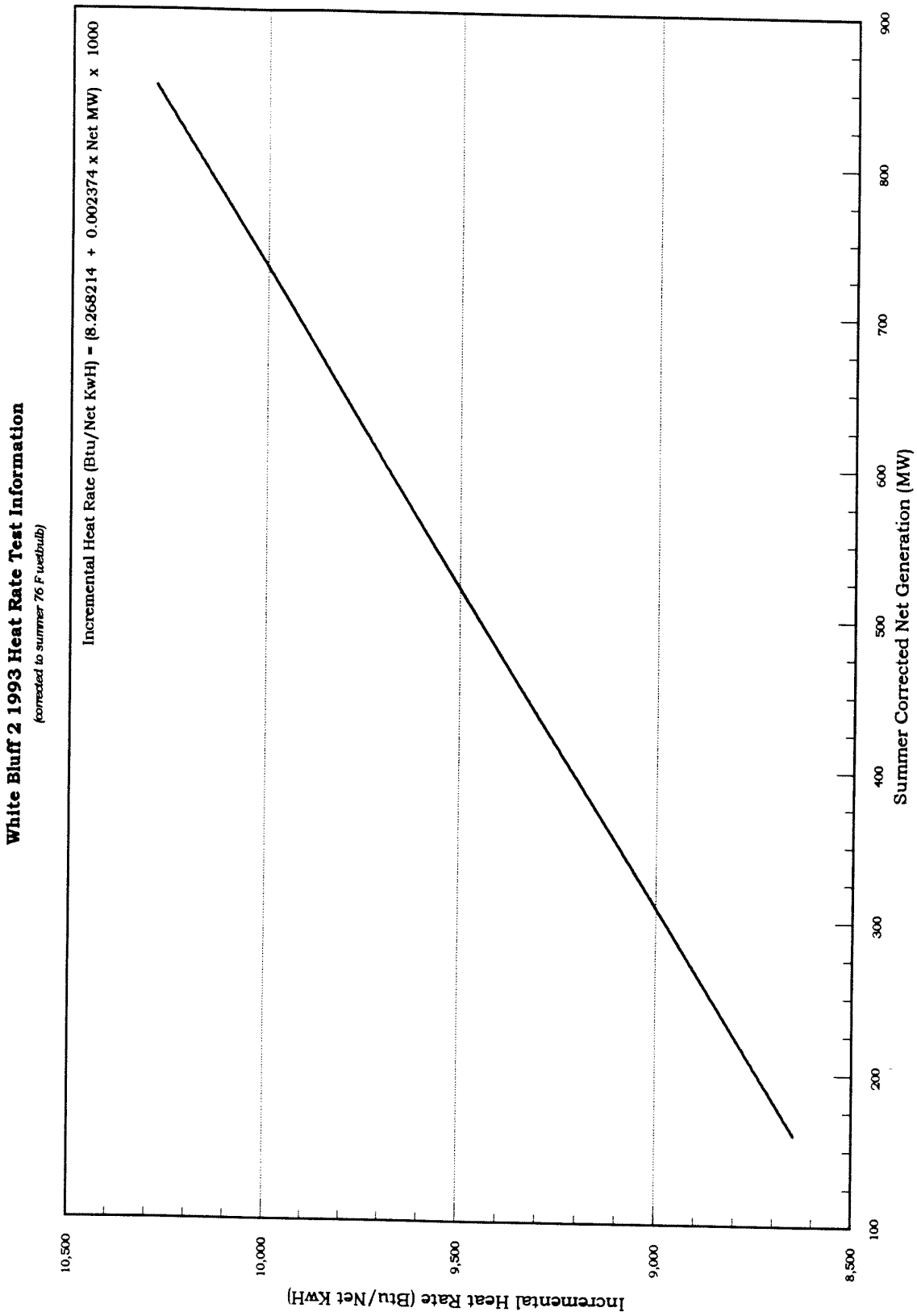

ENTERGY

January 16, 1995

Inter-Office Correspondence

TO: Mr. Mike Bakewell

FROM: Ron House

SUBJECT: 1994 Heat Rate Tests - White Bluff Plant

White Bluff Unit Heat Rate tests were conducted in August and September of last year. An analysis of the tests and their results is attached for your review. As in past years, the tests were conducted in an unbiased manner and in accordance with the Entergy Heat Rate Test Procedure. All White Bluff co-owners were notified in advance so they could witness the tests. Engineers from Arkansas Electric Co-operative were present and participated in the testing.

Please note that there are some differences between the 1993 and 1994 test results:

Unit 1 had a slight overall improvement over 1993. This is primarily due to cooling tower repairs performed in the 1994 spring outage. However, the unit heat rate is still considerably higher than desired. The "B" train of high pressure heaters remains isolated due to tube failures in the 2"B" heater. This heater will be replaced during the 1995 spring boiler outage. The replacement will significantly improve unit heat rate and it would be appropriate then to retest the unit with all heaters in service.

Unit 2 had a notable degradation from 1993. The two primary causes are 1) a plugged air pre-heater and 2) high pressure heater train "A" being isolated due to tube failures in the 2"A" high pressure heater. A number of repairs have been made to the feedwater heater with subsequent additional failures. It remains out of service at this time. Heat rate will be impacted by these conditions, along with a potential limit to unit capacity during summer operation.

I believe the attached results are correct and representative of the present condition of the units. It is my recommendation that these results be implemented for dispatch and co-owner billing purposes. Please pardon the delay in completing this task. It is possible that the co-owners will wish to back calculate fuel costs for November and December. If you need any additional information or if you have any comments, please do not hesitate to contact me at extension 7009.

Ron House

RHH/rh
w/Attachments
cc: Mr. Henry Thompson A-TCBY-23-G
Mr. David Harris ..... AECC
Mr. Art Gilreath T-EP-16
Mr. William C. Phillips ... A-SOC/PB
Mr. Lynn Sanders
Mr. Rick Perryman
Mr. Tom Odenthall
Mr. Nate Stephens
Mr. Jim Booth
Mr. Mike Charles
Mr. Wayne Webb
Mr. Pat Klepper A-ISES

1994 Heat Rate Tests' Information
White Bluff SES Unit 1

Summer Corrected Net Generation	Heat Input
(MW)	(MMBtu/Hr)
159.76	2312.70
160.39	2386.70
243.34	3143.20
249.42	3158.20
340.75	3972.90
344.93	3982.90
455.18	4895.80
446.57	4939.00
547.84	5946.00
555.13	5915.50
636.64	6786.40
648.98	6824.00
754.00	8031.10
755.00	8010.20
791.13	8225.90
785.33	8266.00

Input/OutPut Equation:

Heat Input = $1058.9276 + 7.951202 \times NetMW + 0.001564 \times NetMW^2$
= MMBtu/Hr

Incremental Heat Rate Equation:

Incremental Heat Rate = $(7.951202 + 0.003128 \times NetMW) \times 1000$
= Btu/Net KwH

Net Heat Rate Equation:

Net Heat Rate = $(1058.9276 + 7.951202 \times NetMW + 0.001564 \times NetMW^2) \times 1000/NetMW$
= Btu/Net KwH

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

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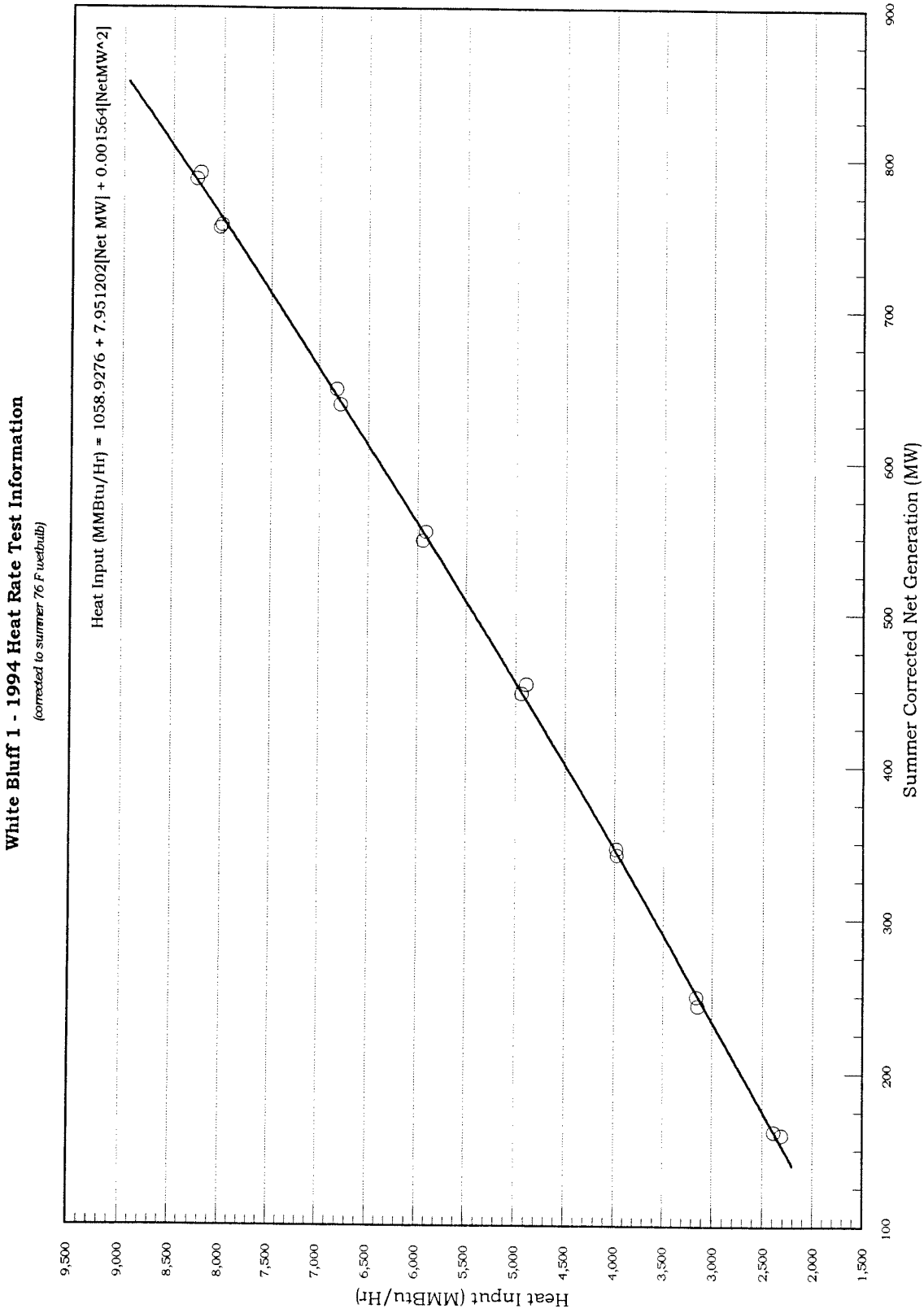

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

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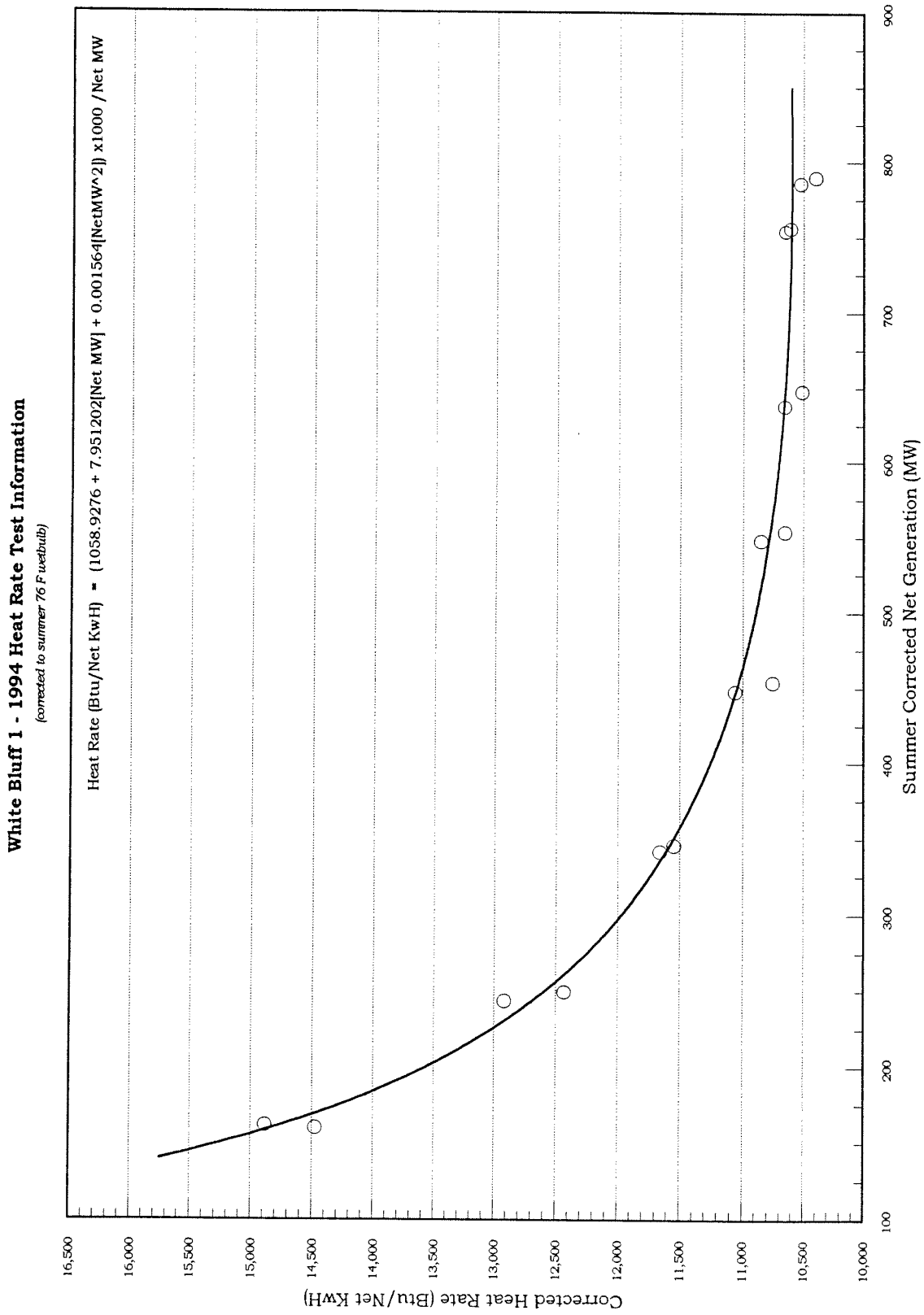

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

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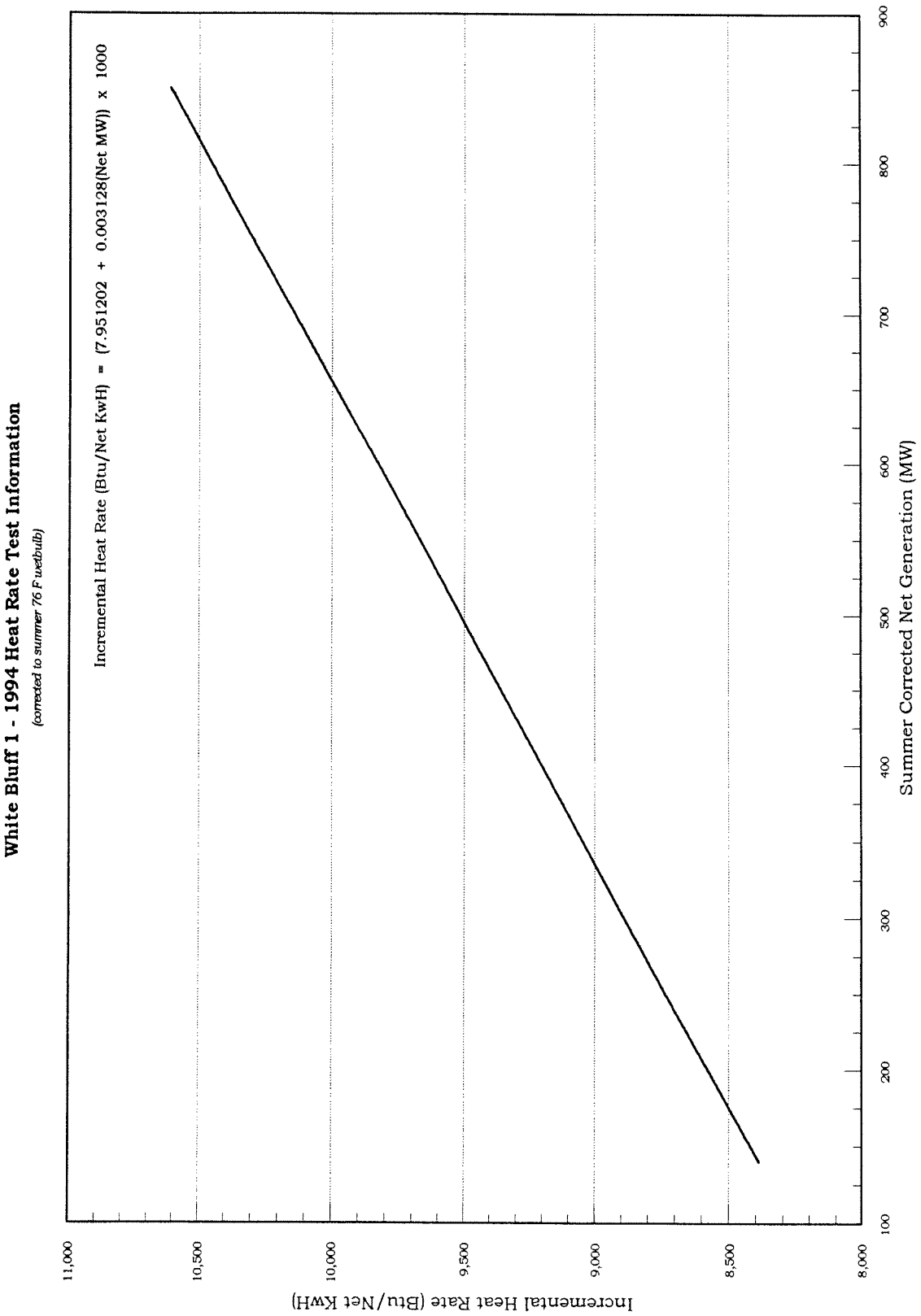


Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

WB_00006055

01-10-1995 11:53:36

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 160MW 1ST HR

MEASURED TEST INPUTS FROM FILE wb1hr94a.160

THE AVERAGE GROSS GENERATION IS	192.00	MWe
THE AVERAGE AUXILIARY USAGE IS	27.80	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	1.84	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	95.36	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	86.48	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	67.80	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	69.70	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	89.97	PCT
THE AVERAGE COAL FLOW IS	265700.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8704.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	8.88	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	86.44	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	91.60	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	91.64	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.14	IN-HG
THE TURBINE THROTTLE FLOW IS	1250521.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-14.89	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-12.83	%

BPCHG = 2.42
KWCHG = -2.37

THE BACKPRESSURE CORRECTION FACTOR IS	1.023651	%
THE CORRECTED GROSS GENERATION IS	187.56	MWe
THE CORRECTED NET GENERATION IS	159.76	MWe
THE UNCORRECTED NET HEAT RATE IS	14084.4	BTU/NKW
THE CORRECTED NET HEAT RATE IS	14475.4	BTU/NKW
THE TOTAL HEAT INPUT IS	2312.7	MMBTU

01-10-1995 12:12:41

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 160MW 2ND HR

MEASURED TEST INPUTS FROM FILE WB1HR94B.160

THE AVERAGE GROSS GENERATION IS	193.00	MWe
THE AVERAGE AUXILIARY USAGE IS	27.70	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	1.80	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	94.65	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	85.75	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	67.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	68.80	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	90.75	PCT
THE AVERAGE COAL FLOW IS	271900.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8778.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	8.90	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	85.77	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	91.55	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	91.54	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.14	IN-HG
THE TURBINE THROTTLE FLOW IS	1252515.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-15.14	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-12.87	%

BPCHG = 2.68
KWCHG = -2.61

THE BACKPRESSURE CORRECTION FACTOR IS	1.026084	%
THE CORRECTED GROSS GENERATION IS	188.09	MWe
THE CORRECTED NET GENERATION IS	160.39	MWe
THE UNCORRECTED NET HEAT RATE IS	14438.8	BTU/NKW
THE CORRECTED NET HEAT RATE IS	14880.5	BTU/NKW
THE TOTAL HEAT INPUT IS	2386.7	MMBTU

01-10-1995 11:54:11

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 250MW 1ST HR

MEASURED TEST INPUTS FROM FILE wb1hr94a.250

THE AVERAGE GROSS GENERATION IS	275.00	MWe
THE AVERAGE AUXILIARY USAGE IS	27.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.09	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	99.61	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	88.55	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	69.20	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	74.90	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	75.36	PCT
THE AVERAGE COAL FLOW IS	354400.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8869.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	11.06	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	88.03	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	92.63	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	93.14	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.39	IN-HG
THE TURBINE THROTTLE FLOW IS	1804155.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-11.27	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-9.71	%

BPCHG = 1.75
KWCHG = -1.72

THE BACKPRESSURE CORRECTION FACTOR IS	1.017229	%
THE CORRECTED GROSS GENERATION IS	270.34	MWe
THE CORRECTED NET GENERATION IS	243.34	MWe
THE UNCORRECTED NET HEAT RATE IS	12674.1	BTU/NKW
THE CORRECTED NET HEAT RATE IS	12916.7	BTU/NKW
THE TOTAL HEAT INPUT IS	3143.2	MMBTU

01-10-1995 11:54:27

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 250MW 2ND HR

MEASURED TEST INPUTS FROM FILE wb1hr94b.250

THE AVERAGE GROSS GENERATION IS	282.00	MWe
THE AVERAGE AUXILIARY USAGE IS	28.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.06	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	99.12	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	87.92	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	69.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	74.30	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	77.15	PCT
THE AVERAGE COAL FLOW IS	357500.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8834.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	11.20	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	87.96	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	92.54	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	92.49	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.35	IN-HG
THE TURBINE THROTTLE FLOW IS	1844081.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-11.28	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-9.80	%

BPCHG = 1.68
KWCHG = -1.65

THE BACKPRESSURE CORRECTION FACTOR IS	1.016499	%
THE CORRECTED GROSS GENERATION IS	277.42	MWe
THE CORRECTED NET GENERATION IS	249.42	MWe
THE UNCORRECTED NET HEAT RATE IS	12433.7	BTU/NKW
THE CORRECTED NET HEAT RATE IS	12661.8	BTU/NKW
THE TOTAL HEAT INPUT IS	3158.2	MMBTU

01-10-1995 11:54:39

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 350MW 1ST HR

MEASURED TEST INPUTS FROM FILE wb1hr94a.350

THE AVERAGE GROSS GENERATION IS	375.00	MWe
THE AVERAGE AUXILIARY USAGE IS	28.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.30	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	102.85	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	88.81	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	67.30	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	73.50	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	72.86	PCT
THE AVERAGE COAL FLOW IS	450800.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8813.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	14.04	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	87.30	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.00	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	94.52	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.71	IN-HG
THE TURBINE THROTTLE FLOW IS	2435114.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-8.47	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-6.89	%

BPCHG = 1.72
KWCHG = -1.70

THE BACKPRESSURE CORRECTION FACTOR IS	1.016957	%
THE CORRECTED GROSS GENERATION IS	368.75	MWe
THE CORRECTED NET GENERATION IS	340.75	MWe
THE UNCORRECTED NET HEAT RATE IS	11449.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11659.4	BTU/NKW
THE TOTAL HEAT INPUT IS	3972.9	MMBTU

01-10-1995 11:54:59

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 350MW 2ND HR

MEASURED TEST INPUTS FROM FILE wb1hr94b.350

THE AVERAGE GROSS GENERATION IS	380.00	MWe
THE AVERAGE AUXILIARY USAGE IS	29.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.26	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	102.23	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	88.39	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	66.90	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	72.10	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	76.42	PCT
THE AVERAGE COAL FLOW IS	450200.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8847.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	13.84	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	87.10	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	92.75	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	94.05	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.66	IN-HG
THE TURBINE THROTTLE FLOW IS	2462154.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-8.55	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-7.04	%

BPCHG = 1.65
KWCHG = -1.62

THE BACKPRESSURE CORRECTION FACTOR IS	1.016227	%
THE CORRECTED GROSS GENERATION IS	373.93	MWe
THE CORRECTED NET GENERATION IS	344.93	MWe
THE UNCORRECTED NET HEAT RATE IS	11347.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11547.0	BTU/NKW
THE TOTAL HEAT INPUT IS	3982.9	MMBTU

01-10-1995 11:55:14

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 450MW 1ST HR

MEASURED TEST INPUTS FROM FILE wb1hr94a.450

THE AVERAGE GROSS GENERATION IS	494.00	MWe
THE AVERAGE AUXILIARY USAGE IS	33.10	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.49	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	105.56	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	88.46	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	67.90	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	75.77	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	67.29	PCT
THE AVERAGE COAL FLOW IS	548300.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8929.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	17.10	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	88.35	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.58	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	93.69	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.89	IN-HG
THE TURBINE THROTTLE FLOW IS	3167969.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-6.17	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-5.06	%

BPCHG = 1.19
KWCHG = -1.17

THE BACKPRESSURE CORRECTION FACTOR IS	1.011717	%
THE CORRECTED GROSS GENERATION IS	488.28	MWe
THE CORRECTED NET GENERATION IS	455.18	MWe
THE UNCORRECTED NET HEAT RATE IS	10622.2	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10755.7	BTU/NKW
THE TOTAL HEAT INPUT IS	4895.8	MMBTU

01-10-1995 11:55:31

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 450MW 2ND HR

MEASURED TEST INPUTS FROM FILE wb1hr94b.450

THE AVERAGE GROSS GENERATION IS	482.00	MWe
THE AVERAGE AUXILIARY USAGE IS	30.90	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.57	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	106.65	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	90.61	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	70.40	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	79.17	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	65.43	PCT
THE AVERAGE COAL FLOW IS	552400.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8941.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	16.04	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	89.65	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.66	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	94.61	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.88	IN-HG
THE TURBINE THROTTLE FLOW IS	3101979.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-6.08	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-5.18	%

BPCHG = 0.96
KWCHG = -0.95

THE BACKPRESSURE CORRECTION FACTOR IS	1.009491	%
THE CORRECTED GROSS GENERATION IS	477.47	MWe
THE CORRECTED NET GENERATION IS	446.57	MWe
THE UNCORRECTED NET HEAT RATE IS	10948.8	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11059.9	BTU/NKW
THE TOTAL HEAT INPUT IS	4939.0	MMBTU

01-10-1995 11:55:42

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 550MW 1ST HR

MEASURED TEST INPUTS FROM FILE wb1hr94a.550

THE AVERAGE GROSS GENERATION IS	587.00	MWe
THE AVERAGE AUXILIARY USAGE IS	35.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.85	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	110.25	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	89.98	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	70.30	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	76.50	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	73.97	PCT
THE AVERAGE COAL FLOW IS	678300.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8766.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	20.27	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	89.55	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.31	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	93.74	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.16	IN-HG
THE TURBINE THROTTLE FLOW IS	3791864.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-4.22	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-3.53	%

BPCHG = 0.72
KWCHG = -0.71

THE BACKPRESSURE CORRECTION FACTOR IS	1.007130	%
THE CORRECTED GROSS GENERATION IS	582.84	MWe
THE CORRECTED NET GENERATION IS	547.84	MWe
THE UNCORRECTED NET HEAT RATE IS	10771.7	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10853.4	BTU/NKW
THE TOTAL HEAT INPUT IS	5946.0	MMBTU

01-10-1995 11:55:59

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 550MW 2ND HR

MEASURED TEST INPUTS FROM FILE wb1hr94b.550

THE AVERAGE GROSS GENERATION IS	590.00	MWe
THE AVERAGE AUXILIARY USAGE IS	32.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.91	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	110.98	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	92.26	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	72.30	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	81.10	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	66.12	PCT
THE AVERAGE COAL FLOW IS	673900.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8778.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	18.72	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	91.18	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.75	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	94.83	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.13	IN-HG
THE TURBINE THROTTLE FLOW IS	3815871.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-4.06	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-3.59	%

BPCHG = 0.49
KWCHG = -0.49

THE BACKPRESSURE CORRECTION FACTOR IS	1.004893	%
THE CORRECTED GROSS GENERATION IS	587.13	MWe
THE CORRECTED NET GENERATION IS	555.13	MWe
THE UNCORRECTED NET HEAT RATE IS	10601.2	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10656.1	BTU/NKW
THE TOTAL HEAT INPUT IS	5915.5	MMBTU

01-10-1995 11:56:13

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 650MW 1ST HR

MEASURED TEST INPUTS FROM FILE wb1hr94a.650

THE AVERAGE GROSS GENERATION IS	679.00	MWe
THE AVERAGE AUXILIARY USAGE IS	37.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.13	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	113.54	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	91.07	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	69.27	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	74.50	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	77.10	PCT
THE AVERAGE COAL FLOW IS	777100.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8733.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	22.47	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	89.07	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.30	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	95.30	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.51	IN-HG
THE TURBINE THROTTLE FLOW IS	4411986.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-3.01	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-2.23	%

BPCHG = 0.80
KWCHG = -0.80

THE BACKPRESSURE CORRECTION FACTOR IS	1.007954	%
THE CORRECTED GROSS GENERATION IS	673.64	MWe
THE CORRECTED NET GENERATION IS	636.64	MWe
THE UNCORRECTED NET HEAT RATE IS	10570.7	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10659.7	BTU/NKW
THE TOTAL HEAT INPUT IS	6786.4	MMBTU

01-10-1995 11:56:25

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 650MW 2ND HR

MEASURED TEST INPUTS FROM FILE wb1hr94b.650

THE AVERAGE GROSS GENERATION IS	686.00	MWe
THE AVERAGE AUXILIARY USAGE IS	33.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.27	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	115.11	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	92.83	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	71.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	80.40	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	64.07	PCT
THE AVERAGE COAL FLOW IS	784100.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8703.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	22.28	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	90.99	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.07	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	95.91	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.56	IN-HG
THE TURBINE THROTTLE FLOW IS	4475725.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-2.67	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-2.09	%

BPCHG = 0.59
KWCHG = -0.59

THE BACKPRESSURE CORRECTION FACTOR IS	1.005890	%
THE CORRECTED GROSS GENERATION IS	681.98	MWe
THE CORRECTED NET GENERATION IS	648.98	MWe
THE UNCORRECTED NET HEAT RATE IS	10450.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10514.9	BTU/NKW
THE TOTAL HEAT INPUT IS	6824.0	MMBTU

01-10-1995 11:56:55

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 750MW 1ST HR

MEASURED TEST INPUTS FROM FILE wb1hr94a.750

THE AVERAGE GROSS GENERATION IS	791.00	MWe
THE AVERAGE AUXILIARY USAGE IS	37.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.74	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	119.89	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	93.84	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	75.60	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	83.50	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	70.18	PCT
THE AVERAGE COAL FLOW IS	933200.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8606.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	26.05	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	93.90	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.90	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	93.84	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.74	IN-HG
THE TURBINE THROTTLE FLOW IS	5294983.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-1.31	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-1.31	%

BPCHG = 0.00
KWCHG = 0.00

THE BACKPRESSURE CORRECTION FACTOR IS	1.000000	%
THE CORRECTED GROSS GENERATION IS	791.00	MWe
THE CORRECTED NET GENERATION IS	754.00	MWe
THE UNCORRECTED NET HEAT RATE IS	10651.4	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10651.4	BTU/NKW
THE TOTAL HEAT INPUT IS	8031.1	MMBTU

01-10-1995 11:57:08

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 1 - 750MW 2ND HR

MEASURED TEST INPUTS FROM FILE wb1hr94b.750

THE AVERAGE GROSS GENERATION IS	791.00	MWe
THE AVERAGE AUXILIARY USAGE IS	36.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.84	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	120.86	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	95.04	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	76.20	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	86.60	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	62.76	PCT
THE AVERAGE COAL FLOW IS	928500.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8627.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	25.82	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	94.32	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.32	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	95.04	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.84	IN-HG
THE TURBINE THROTTLE FLOW IS	5305242.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-1.14	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-1.14	%

BPCHG = 0.00
KWCHG = 0.00

THE BACKPRESSURE CORRECTION FACTOR IS	1.000000	%
THE CORRECTED GROSS GENERATION IS	791.00	MWe
THE CORRECTED NET GENERATION IS	755.00	MWe
THE UNCORRECTED NET HEAT RATE IS	10609.5	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10609.5	BTU/NKW
THE TOTAL HEAT INPUT IS	8010.2	MMBTU

01-10-1995 11:57:25

HEAT RATE CORRECTIONS FOR
WHITE BLUFF UNIT 1 FULL LOAD 1ST HR

MEASURED TEST INPUTS FROM FILE wb1hr94a.815

THE AVERAGE GROSS GENERATION IS	829.00	MWe
THE AVERAGE AUXILIARY USAGE IS	37.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.99	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	122.32	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	95.13	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	75.20	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	83.60	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	68.46	PCT
THE AVERAGE COAL FLOW IS	935400.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8794.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	27.19	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	93.45	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.06	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	95.75	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	4.06	IN-HG
THE TURBINE THROTTLE FLOW IS	5610425.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-0.82	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-0.72	%

BPCHG = 0.10
KWCHG = -0.10

THE BACKPRESSURE CORRECTION FACTOR IS	1.001045	%
THE CORRECTED GROSS GENERATION IS	828.13	MWe
THE CORRECTED NET GENERATION IS	791.13	MWe
THE UNCORRECTED NET HEAT RATE IS	10386.2	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10397.6	BTU/NKW
THE TOTAL HEAT INPUT IS	8225.9	MMBTU

01-10-1995 11:57:37

HEAT RATE CORRECTIONS FOR
WHITE BLUFF UNIT 1 FULL LOAD 2ND HR

MEASURED TEST INPUTS FROM FILE wb1hr94b.815

THE AVERAGE GROSS GENERATION IS	822.00	MWe
THE AVERAGE AUXILIARY USAGE IS	36.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.69	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	119.41	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	92.41	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	75.20	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	83.60	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	68.46	PCT
THE AVERAGE COAL FLOW IS	933800.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8852.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	27.00	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	93.44	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.05	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	93.02	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.75	IN-HG
THE TURBINE THROTTLE FLOW IS	5531237.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-1.27	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-1.18	%

BPCHG = 0.08
KWCHG = -0.08

THE BACKPRESSURE CORRECTION FACTOR IS	1.000819	%
THE CORRECTED GROSS GENERATION IS	821.33	MWe
THE CORRECTED NET GENERATION IS	785.33	MWe
THE UNCORRECTED NET HEAT RATE IS	10516.5	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10525.5	BTU/NKW
THE TOTAL HEAT INPUT IS	8266.0	MMBTU

---------- REGRESSION ANALYSIS ----------

HEADER DATA FOR: E:WB1HR94 LABEL: WHITE BLUFF UNIT 1 HEAT RATE TESTS 1994
NUMBER OF CASES: 16 NUMBER OF VARIABLES: 3

INDEX	NAME	MEAN	STD.DEV.
1	CNM	492.1493750	224.3437909
2	CNM^2	289395.5106250	219997.5571325
DEP. VAR.:	HEATIN	5424.7812500	2124.1648810

DEPENDENT VARIABLE: HEATIN

VAR.	REGRESSION COEFFICIENT	STD. ERROR	T(DF= 13)	PROB.	PARTIAL r^2
CNM	7.9512023	.4029996	19.730	.00000	.9677
CNM^2	.0015642	.0004110	3.806	.00218	.5271
CONSTANT	1058.9275623				

STD. ERROR OF EST. = 61.8466702

ADJUSTED R SQUARED = .9991523
R SQUARED = .9992653
MULTIPLE R = .9996326

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO	PROB.
REGRESSION	67631421.4863450	2	33815710.7431730	8840.684	.000E+00
RESIDUAL	49725.1380312	13	3825.0106178		
TOTAL	67681146.6243760	15			

	OBSERVED	CALCULATED	RESIDUAL	STANDARDIZED RESIDUALS -2.0 0 2.0
1	2312.700	2369.135	-56.435304	
2	2386.700	2374.460	12.239954	
3	3143.200	3086.397	56.803358	
4	3158.200	3139.426	18.773715	
5	3972.900	3949.921	22.979315	
6	3982.900	3987.640	-4.739947	
7	4895.800	5002.242	-106.442019	
8	4939.000	4921.638	17.362444	
9	5946.000	5884.378	61.622442	
10	5915.500	5954.919	-39.419063	
11	6786.400	6754.970	31.429555	
12	6824.000	6877.904	-53.903719	
13	8031.100	7943.411	87.689278	
14	8010.200	7953.722	56.477687	
15	8225.900	8328.378	-102.478474	
16	8266.000	8267.959	-1.959222	

DURBIN-WATSON TEST = 2.3221

1994 Heat Rate Tests' Information
White Bluff SES Unit 2

Summer Corrected Net Generation	Heat Input
(MW)	(MMBtu/Hr)
162.15	2274.60
158.12	2268.50
246.15	3037.10
250.24	3059.30
353.24	4048.00
356.58	3997.90
456.57	4867.80
451.73	4889.00
556.54	5818.30
549.26	5829.00
656.20	6761.30
648.35	6720.80
755.23	7900.80
759.40	7929.30
836.53	8788.80
842.81	8716.00

Input/OutPut Equation:

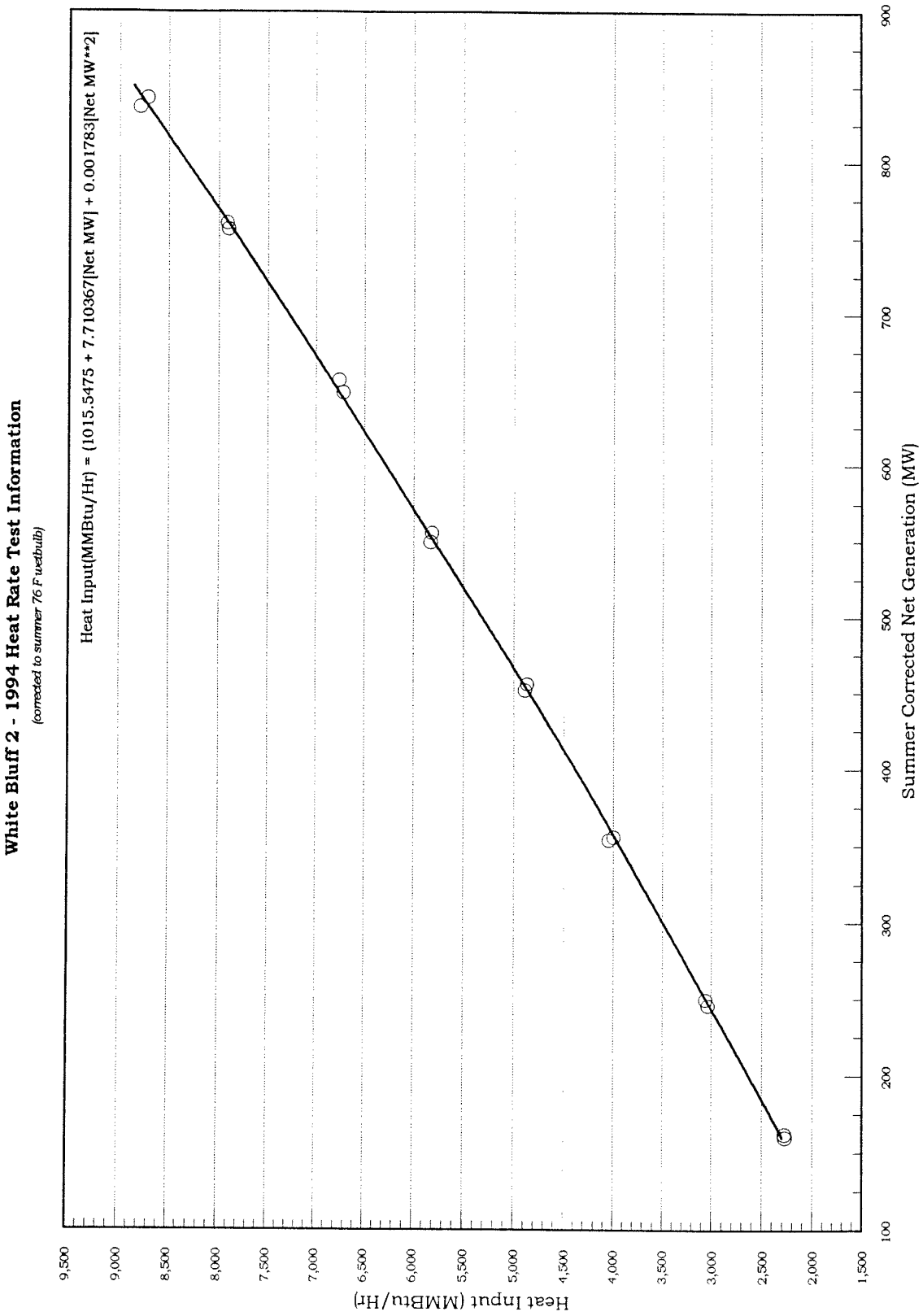
Heat Input = $1015.5475 + 7.710367 \times NetMW + 0.001783 \times NetMW^2$
= MMBtu/Hr

Incremental Heat Rate Equation:

Incremental Heat Rate = $(7.710367 + 0.003566 \times NetMW) \times 1000$
= Btu/Net KwH

Net Heat Rate Equation:

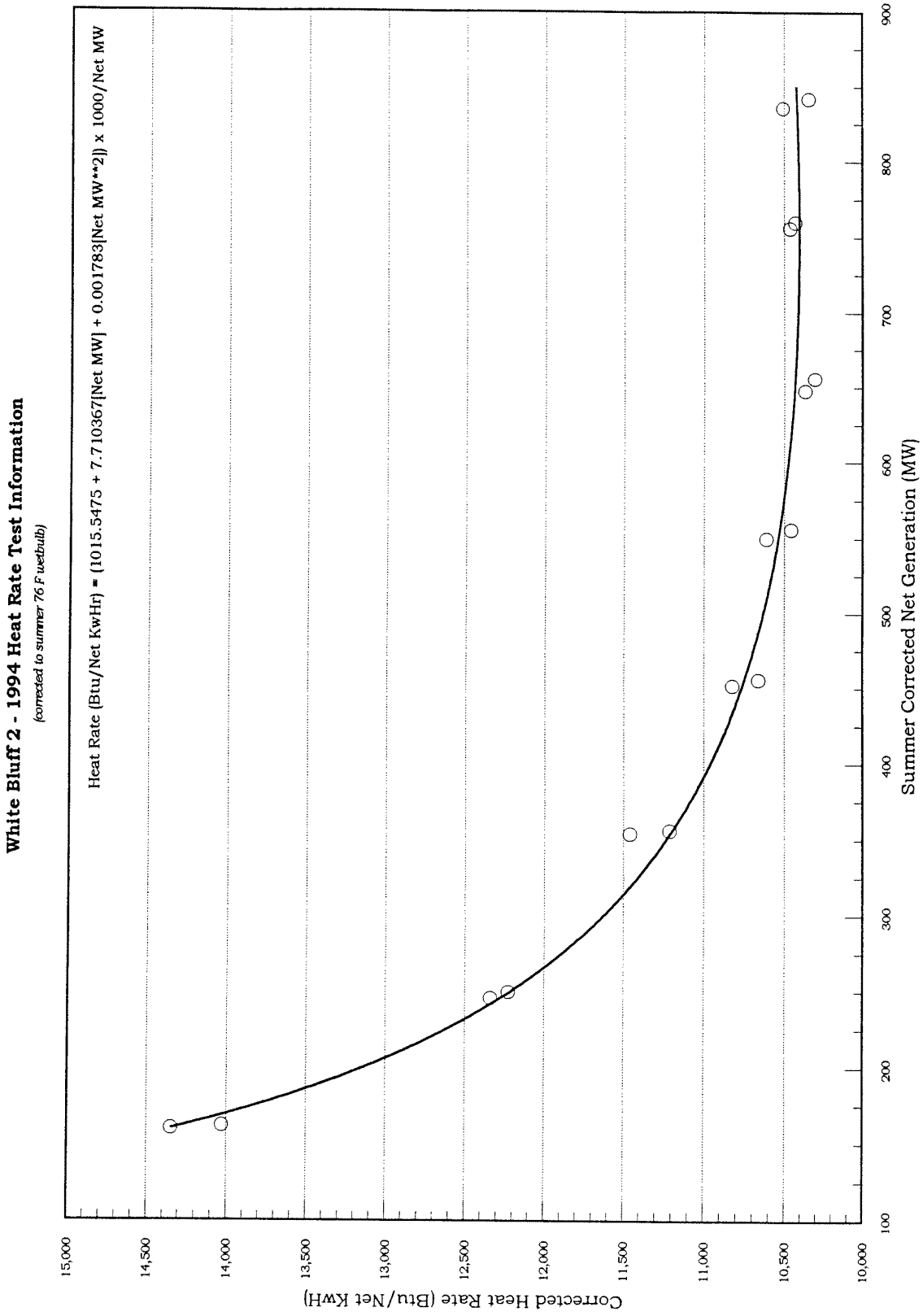
Net Heat Rate = $(1015.5475 + 7.710367 \times NetMW + 0.001783 \times NetMW^2) \times 1000/NetMW$
= Btu/Net KwH



Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

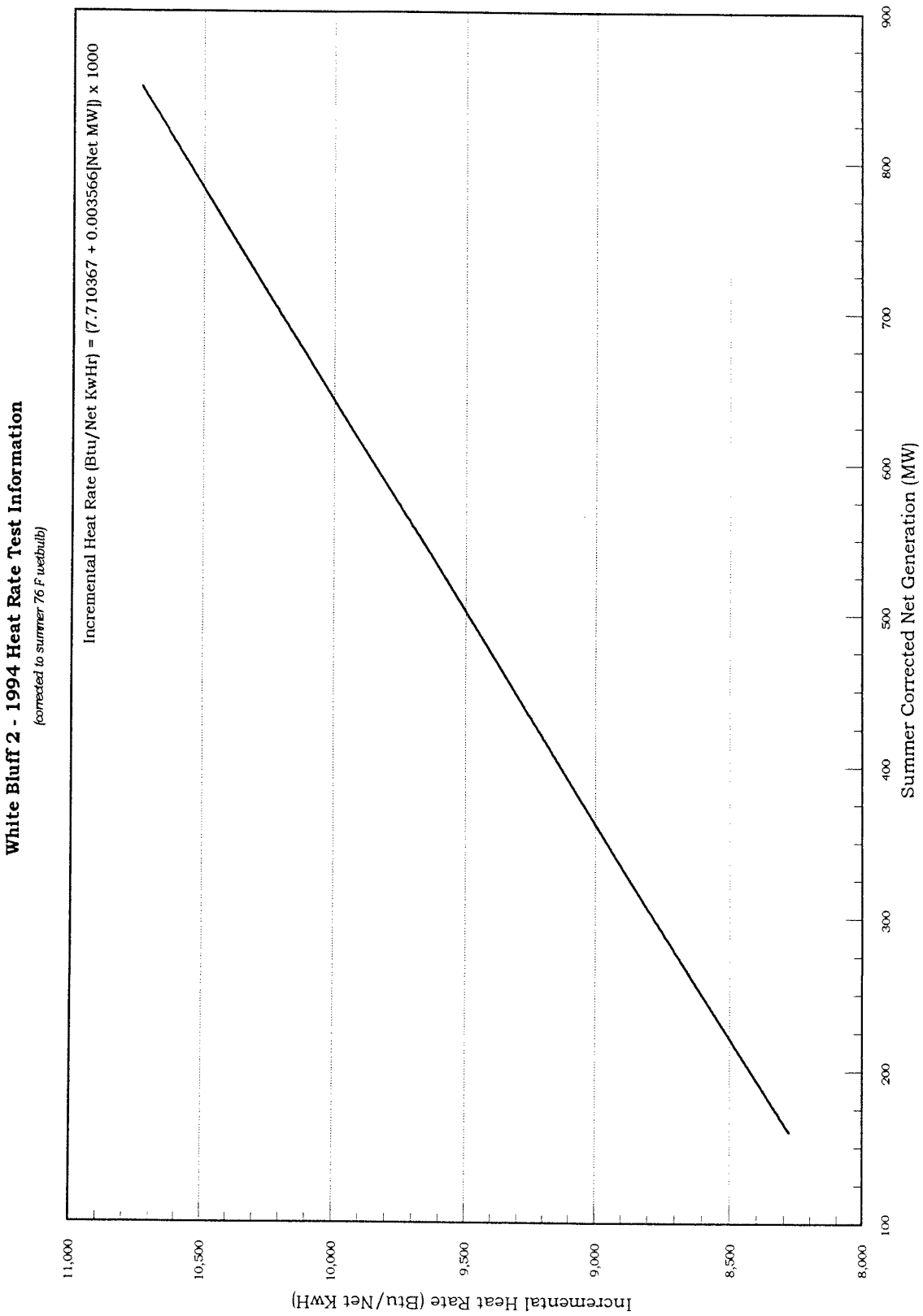
WB_00006074



Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

WB_00006075



Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

WB_00006076

01-10-1995 11:58:51

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 160 - 1ST HR

MEASURED TEST INPUTS FROM FILE wb2hr94a.160

THE AVERAGE GROSS GENERATION IS	187.00	MWe
THE AVERAGE AUXILIARY USAGE IS	21.80	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	1.57	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	90.18	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	82.63	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	70.17	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	71.27	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	93.72	PCT
THE AVERAGE COAL FLOW IS	264300.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8606.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	7.55	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	87.13	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	91.25	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	86.75	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	1.78	IN-HG
THE TURBINE THROTTLE FLOW IS	1184162.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-17.00	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-15.60	%

BPCHG = 1.68
KWCHG = -1.66

THE BACKPRESSURE CORRECTION FACTOR IS	1.016561	%
THE CORRECTED GROSS GENERATION IS	183.95	MWe
THE CORRECTED NET GENERATION IS	162.15	MWe
THE UNCORRECTED NET HEAT RATE IS	13768.6	BTU/NKW
THE CORRECTED NET HEAT RATE IS	14027.2	BTU/NKW
THE TOTAL HEAT INPUT IS	2274.6	MMBTU

01-10-1995 11:59:02

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 160 - 2ND HR

MEASURED TEST INPUTS FROM FILE wb2hr94b.160

THE AVERAGE GROSS GENERATION IS	183.00	MWe
THE AVERAGE AUXILIARY USAGE IS	21.60	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	1.57	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	90.18	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	82.70	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	69.43	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	70.23	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	94.94	PCT
THE AVERAGE COAL FLOW IS	260600.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8705.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	7.48	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	86.72	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	91.17	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	87.15	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	1.79	IN-HG
THE TURBINE THROTTLE FLOW IS	1157501.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-17.15	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-15.61	%

BPCHG = 1.86
KWCHG = -1.82

THE BACKPRESSURE CORRECTION FACTOR IS	1.018237	%
THE CORRECTED GROSS GENERATION IS	179.72	MWe
THE CORRECTED NET GENERATION IS	158.12	MWe
THE UNCORRECTED NET HEAT RATE IS	14055.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS	14346.6	BTU/NKW
THE TOTAL HEAT INPUT IS	2268.5	MMBTU

01-10-1995 11:59:14

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 250 - 1ST HR

MEASURED TEST INPUTS FROM FILE wb2hr94a.250

THE AVERAGE GROSS GENERATION IS	273.00	MWe
THE AVERAGE AUXILIARY USAGE IS	22.70	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	1.76	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	93.90	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	84.19	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	68.30	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	69.10	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	94.85	PCT
THE AVERAGE COAL FLOW IS	350500.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8665.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	9.71	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	86.36	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	91.38	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	89.21	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.04	IN-HG
THE TURBINE THROTTLE FLOW IS	1765454.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-13.01	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-11.64	%

BPCHG = 1.57
KWCHG = -1.54

THE BACKPRESSURE CORRECTION FACTOR IS	1.015433	%
THE CORRECTED GROSS GENERATION IS	268.85	MWe
THE CORRECTED NET GENERATION IS	246.15	MWe
THE UNCORRECTED NET HEAT RATE IS	12133.8	BTU/NKW
THE CORRECTED NET HEAT RATE IS	12338.3	BTU/NKW
THE TOTAL HEAT INPUT IS	3037.1	MMBTU

01-10-1995 11:59:24

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 250 - 2ND HR

MEASURED TEST INPUTS FROM FILE wb2hr94b.250

THE AVERAGE GROSS GENERATION IS	275.00	MWe
THE AVERAGE AUXILIARY USAGE IS	21.60	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	1.71	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	92.97	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	83.37	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	69.70	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	71.10	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	92.38	PCT
THE AVERAGE COAL FLOW IS	351800.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8696.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	9.60	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	87.45	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	91.52	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	87.43	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	1.93	IN-HG
THE TURBINE THROTTLE FLOW IS	1773270.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-13.18	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-12.16	%

BPCHG = 1.18
KWCHG = -1.16

THE BACKPRESSURE CORRECTION FACTOR IS	1.011617	%
THE CORRECTED GROSS GENERATION IS	271.84	MWe
THE CORRECTED NET GENERATION IS	250.24	MWe
THE UNCORRECTED NET HEAT RATE IS	12072.8	BTU/NKW
THE CORRECTED NET HEAT RATE IS	12225.2	BTU/NKW
THE TOTAL HEAT INPUT IS	3059.3	MMBTU

01-10-1995 11:59:36

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 350 - 1ST HR

MEASURED TEST INPUTS FROM FILE wb2hr94a.350

THE AVERAGE GROSS GENERATION IS	379.00	MWe
THE AVERAGE AUXILIARY USAGE IS	23.90	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.15	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	100.54	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	87.09	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	73.20	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	80.20	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	72.28	PCT
THE AVERAGE COAL FLOW IS	463900.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8726.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	13.45	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	90.99	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.01	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	89.10	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.28	IN-HG
THE TURBINE THROTTLE FLOW IS	2446627.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-8.97	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-8.52	%

BPCHG = 0.50
KWCHG = -0.49

THE BACKPRESSURE CORRECTION FACTOR IS	1.004934	%
THE CORRECTED GROSS GENERATION IS	377.14	MWe
THE CORRECTED NET GENERATION IS	353.24	MWe
THE UNCORRECTED NET HEAT RATE IS	11399.6	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11459.6	BTU/NKW
THE TOTAL HEAT INPUT IS	4048.0	MMBTU

01-10-1995 11:59:47

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 350 - 2ND HR

MEASURED TEST INPUTS FROM FILE wb2hr94b.350

THE AVERAGE GROSS GENERATION IS	382.00	MWe
THE AVERAGE AUXILIARY USAGE IS	24.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.22	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	101.61	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	88.34	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	74.20	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	83.20	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	66.23	PCT
THE AVERAGE COAL FLOW IS	463200.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8631.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	13.27	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	91.98	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.45	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	89.81	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.31	IN-HG
THE TURBINE THROTTLE FLOW IS	2470945.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-8.66	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-8.32	%

BPCHG = 0.38
KWCHG = -0.37

THE BACKPRESSURE CORRECTION FACTOR IS	1.003738	%
THE CORRECTED GROSS GENERATION IS	380.58	MWe
THE CORRECTED NET GENERATION IS	356.58	MWe
THE UNCORRECTED NET HEAT RATE IS	11167.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11211.8	BTU/NKW
THE TOTAL HEAT INPUT IS	3997.9	MMBTU

01-10-1995 11:59:58

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 450 - 1ST HR

MEASURED TEST INPUTS FROM FILE wb2hr94a.450

THE AVERAGE GROSS GENERATION IS	483.00	MWe
THE AVERAGE AUXILIARY USAGE IS	24.80	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.27	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	102.39	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	86.66	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	72.90	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	78.40	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	77.31	PCT
THE AVERAGE COAL FLOW IS	568200.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8567.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	15.73	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	90.88	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	92.83	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	88.60	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.40	IN-HG
THE TURBINE THROTTLE FLOW IS	3085866.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-6.87	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-6.56	%

BPCHG = 0.34
KWCHG = -0.34

THE BACKPRESSURE CORRECTION FACTOR IS	1.003386	%
THE CORRECTED GROSS GENERATION IS	481.37	MWe
THE CORRECTED NET GENERATION IS	456.57	MWe
THE UNCORRECTED NET HEAT RATE IS	10623.7	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10661.6	BTU/NKW
THE TOTAL HEAT INPUT IS	4867.8	MMBTU

01-10-1995 12:00:09

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 450 - 2ND HR

MEASURED TEST INPUTS FROM FILE wb2hr94b.450

THE AVERAGE GROSS GENERATION IS	477.00	MWe
THE AVERAGE AUXILIARY USAGE IS	23.50	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.30	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	102.85	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	87.15	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	73.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	81.50	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	67.70	PCT
THE AVERAGE COAL FLOW IS	567300.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8618.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	15.70	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	91.45	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.48	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	89.17	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.44	IN-HG
THE TURBINE THROTTLE FLOW IS	3051917.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-6.89	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-6.54	%

BPCHG = 0.37
KWCHG = -0.37

THE BACKPRESSURE CORRECTION FACTOR IS	1.003724	%
THE CORRECTED GROSS GENERATION IS	475.23	MWe
THE CORRECTED NET GENERATION IS	451.73	MWe
THE UNCORRECTED NET HEAT RATE IS	10780.6	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10822.8	BTU/NKW
THE TOTAL HEAT INPUT IS	4889.0	MMBTU

01-10-1995 12:00:25

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 550 - 1ST HR

MEASURED TEST INPUTS FROM FILE wb2hr94a.550

THE AVERAGE GROSS GENERATION IS	586.00	MWe
THE AVERAGE AUXILIARY USAGE IS	27.80	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.54	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	106.24	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	87.85	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	73.20	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	80.70	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	70.63	PCT
THE AVERAGE COAL FLOW IS	675600.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8612.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	18.39	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	91.48	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.42	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	89.80	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.68	IN-HG
THE TURBINE THROTTLE FLOW IS	3761210.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-4.87	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-4.60	%

BPCHG = 0.28
KWCHG = -0.28

THE BACKPRESSURE CORRECTION FACTOR IS	1.002833	%
THE CORRECTED GROSS GENERATION IS	584.34	MWe
THE CORRECTED NET GENERATION IS	556.54	MWe
THE UNCORRECTED NET HEAT RATE IS	10423.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10454.3	BTU/NKW
THE TOTAL HEAT INPUT IS	5818.3	MMBTU

01-10-1995 12:00:40

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 550 - 2ND HR

MEASURED TEST INPUTS FROM FILE wb2hr94b.550

THE AVERAGE GROSS GENERATION IS	577.00	MWe
THE AVERAGE AUXILIARY USAGE IS	26.50	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.58	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	106.79	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	88.48	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	73.70	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	84.30	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	61.22	PCT
THE AVERAGE COAL FLOW IS	675200.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8633.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	18.31	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	92.67	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.06	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	89.87	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.68	IN-HG
THE TURBINE THROTTLE FLOW IS	3705931.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-4.90	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-4.70	%

BPCHG = 0.22
KWCHG = -0.21

THE BACKPRESSURE CORRECTION FACTOR IS	1.002146	%
THE CORRECTED GROSS GENERATION IS	575.76	MWe
THE CORRECTED NET GENERATION IS	549.26	MWe
THE UNCORRECTED NET HEAT RATE IS	10588.6	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10612.4	BTU/NKW
THE TOTAL HEAT INPUT IS	5829.0	MMBTU

01-10-1995 12:00:52

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 650 - 1ST HR

MEASURED TEST INPUTS FROM FILE wb2hr94a.650

THE AVERAGE GROSS GENERATION IS	688.00	MWe
THE AVERAGE AUXILIARY USAGE IS	28.70	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.63	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	107.45	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	85.86	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	68.50	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	77.10	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	65.15	PCT
THE AVERAGE COAL FLOW IS	774400.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8731.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	21.59	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	89.62	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.96	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	90.20	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.97	IN-HG
THE TURBINE THROTTLE FLOW IS	4440218.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-3.71	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-3.27	%

BPCHG = 0.46
KWCHG = -0.45

THE BACKPRESSURE CORRECTION FACTOR IS	1.004531	%
THE CORRECTED GROSS GENERATION IS	684.90	MWe
THE CORRECTED NET GENERATION IS	656.20	MWe
THE UNCORRECTED NET HEAT RATE IS	10255.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10303.7	BTU/NKW
THE TOTAL HEAT INPUT IS	6761.3	MMBTU

01-10-1995 12:01:05

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 650 - 2ND HR

MEASURED TEST INPUTS FROM FILE wb2hr94b.650

THE AVERAGE GROSS GENERATION IS	680.00	MWe
THE AVERAGE AUXILIARY USAGE IS	28.50	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.64	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	107.58	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	86.21	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	69.20	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	82.10	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	52.59	PCT
THE AVERAGE COAL FLOW IS	773400.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8690.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	21.37	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	90.31	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.77	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	90.66	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.99	IN-HG
THE TURBINE THROTTLE FLOW IS	4384161.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-3.78	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-3.33	%

BPCHG = 0.47
KWCHG = -0.47

THE BACKPRESSURE CORRECTION FACTOR IS	1.004657	%
THE CORRECTED GROSS GENERATION IS	676.85	MWe
THE CORRECTED NET GENERATION IS	648.35	MWe
THE UNCORRECTED NET HEAT RATE IS	10316.0	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10366.1	BTU/NKW
THE TOTAL HEAT INPUT IS	6720.8	MMBTU

01-10-1995 12:01:19

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 750 - 1ST HR

MEASURED TEST INPUTS FROM FILE wb2hr94a.750

THE AVERAGE GROSS GENERATION IS	785.00	MWe
THE AVERAGE AUXILIARY USAGE IS	30.50	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.53	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	117.85	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	92.08	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	76.50	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	96.60	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	38.03	PCT
THE AVERAGE COAL FLOW IS	909500.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8687.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	25.77	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	97.28	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	96.61	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	91.41	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.47	IN-HG
THE TURBINE THROTTLE FLOW IS	5224731.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-1.67	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-1.76	%

BPCHG = -0.09
KWCHG = 0.09

THE BACKPRESSURE CORRECTION FACTOR IS	0.999070	%
THE CORRECTED GROSS GENERATION IS	785.73	MWe
THE CORRECTED NET GENERATION IS	755.23	MWe
THE UNCORRECTED NET HEAT RATE IS	10471.6	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10461.5	BTU/NKW
THE TOTAL HEAT INPUT IS	7900.8	MMBTU

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

01-10-1995 12:01:31

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNTI 2 - 750 - 2ND HR

MEASURED TEST INPUTS FROM FILE wb2hr94b.750

THE AVERAGE GROSS GENERATION IS.....	790.00	MWe
THE AVERAGE AUXILIARY USAGE IS.....	30.60	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS.....	3.59	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS.....	118.43	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS.....	92.71	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS.....	76.40	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS.....	96.20	DEG F
THE COMPUTED RELATIVE HUMIDITY IS.....	38.67	PCT
THE AVERAGE COAL FLOW IS.....	908800.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS.....	8714.00	BTU/LB
THE AVERAGE OIL FLOW IS.....	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS.....	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS.....	341000	GPM
THE COOLING TOWER RANGE IS.....	25.72	DEG F
THE DESIGN COLD WATER TEMPERATURE IS.....	96.53	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS.....	96.53	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS.....	92.71	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS.....	3.59	IN-HG
THE TURBINE THROTTLE FLOW IS.....	5271193.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS.....	-1.54	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS.....	-1.54	%

BPCHG = 0.00
KWCHG = 0.00

THE BACKPRESSURE CORRECTION FACTOR IS.....	1.000000	%
THE CORRECTED GROSS GENERATION IS.....	790.00	MWe
THE CORRECTED NET GENERATION IS.....	759.40	MWe
THE UNCORRECTED NET HEAT RATE IS.....	10428.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS.....	10428.3	BTU/NKW
THE TOTAL HEAT INPUT IS.....	7919.3	MMBTU

01-10-1995 12:01:43

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 840 - 1ST HR

MEASURED TEST INPUTS FROM FILE wb2hr94a.840

THE AVERAGE GROSS GENERATION IS	876.00	MWe
THE AVERAGE AUXILIARY USAGE IS	33.50	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.41	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	116.62	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	88.19	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	67.20	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	89.80	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	27.57	PCT
THE AVERAGE COAL FLOW IS	1011600.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8688.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	28.43	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	92.06	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	97.89	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	94.02	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.99	IN-HG
THE TURBINE THROTTLE FLOW IS	5917023.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-1.42	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-0.74	%

BPCHG = 0.69
KWCHG = -0.69

THE BACKPRESSURE CORRECTION FACTOR IS	1.006864	%
THE CORRECTED GROSS GENERATION IS	870.03	MWe
THE CORRECTED NET GENERATION IS	836.53	MWe
THE UNCORRECTED NET HEAT RATE IS	10431.8	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10506.3	BTU/NKW
THE TOTAL HEAT INPUT IS	8788.8	MMBTU

01-10-1995 12:01:54

HEAT RATE CORRECTIONS FOR WHITE BLUFF UNIT 2 - 840 - 2ND HR

MEASURED TEST INPUTS FROM FILE wb2hr94b.840

THE AVERAGE GROSS GENERATION IS	882.00	MWe
THE AVERAGE AUXILIARY USAGE IS	33.60	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.48	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	117.35	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	88.88	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	67.90	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	91.40	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	25.91	PCT
THE AVERAGE COAL FLOW IS	1008800.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8640.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	28.47	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	92.78	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	98.10	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	94.20	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	4.02	IN-HG
THE TURBINE THROTTLE FLOW IS	5968445.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-1.33	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-0.69	%

BPCHG = 0.64
KWCHG = -0.64

THE BACKPRESSURE CORRECTION FACTOR IS	1.006383	%
THE CORRECTED GROSS GENERATION IS	876.41	MWe
THE CORRECTED NET GENERATION IS	842.81	MWe
THE UNCORRECTED NET HEAT RATE IS	10273.5	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10341.7	BTU/NKW
THE TOTAL HEAT INPUT IS	8716.0	MMBTU

---------- REGRESSION ANALYSIS ----------

HEADER DATA FOR: E:HR94WB2 LABEL:
MBER OF CASES: 16 NUMBER OF VARIABLES: 3

INDEX	NAME	MEAN	STD.DEV.
1	CNMW	502.4437500	233.7098158
2	CNM2^2	303581.4637500	238142.5587119
DEP. VAR.:	HEATIN	5430.9975000	2221.1123272

DEPENDENT VARIABLE: HEATIN

VAR.	REGRESSION COEFFICIENT	STD. ERROR	T(DF= 13)	PROB.	PARTIAL r^2
CNMW	7.7103672	.3073951	25.083	.00000	.9798
CNM2^2	.0017835	.0003017	5.912	.00005	.7289
CONSTANT	1015.5475017				

STD. ERROR OF EST. = 52.2618548

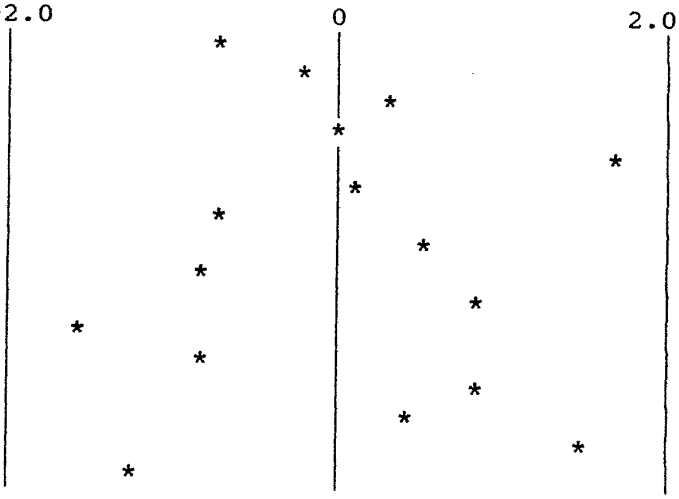
ADJUSTED R SQUARED = .9994464
R SQUARED = .9995202
MULTIPLE R = .9997601

ANALYSIS OF VARIANCE TABLE

SOURCE	SUM OF SQUARES	D.F.	MEAN SQUARE	F RATIO	PROB.
GRESSION	73964592.6344330	2	36982296.3172170	13540.174	.000E+00
RESIDUAL	35506.9190687	13	2731.3014668		
TOTAL	74000099.5535020	15			

	OBSERVED	CALCULATED	RESIDUAL
1	2274.060	2312.675	-38.615270
2	2268.500	2279.301	-10.800602
3	3037.100	3021.514	15.586338
4	3059.300	3056.670	2.630092
5	4048.000	3961.695	86.305427
6	3997.900	3991.675	6.224583
7	4867.800	4907.642	-39.842243
8	4889.000	4862.484	26.516310
9	5818.300	5859.077	-40.777168
10	5829.000	5788.588	40.411519
11	6761.300	6843.044	-81.743839
12	6720.800	6764.254	-43.453583
13	7900.800	7855.882	44.917871
14	7919.300	7899.299	20.001314
15	8788.800	8713.532	75.267809
16	8716.000	8778.629	-62.628557

STANDARDIZED RESIDUALS



DURBIN-WATSON TEST = 2.2414

White Bluff Plant - Unit One
Heat Rate Test Inputs
1995

Test Load	160	160	250	250	350	350	450	450	550	550	650	650	750	750	FULL	FULL
Test Date	6/21/95	6/21/95	6/20/95	6/20/95	6/30/95	6/30/95	6/20/95	6/20/95	6/21/95	6/21/95	6/23/95	6/23/95	6/30/95	6/30/95	6/23/95	6/23/95
Start Time	400	500	400	500	800	900	900	1000	900	1000	900	1000	1300	1400	1400	1500
End Time	500	600	500	600	900	1000	1000	1100	1000	1100	1000	1100	1400	1500	1500	1600
Data File Name	1160a	1160b	1250a	1250b	1350a	1350b	1450a	1450b	1550a	1550b	1650a	1650b	1750a	1750b	1FULLa	1FULLb
Gross Generation (MW)	190	190	282	280	377	372	481	483	583	586	688	685	781	787	853	853
Aux Usage (MW)	28.3	26.9	26.6	27.7	28.5	29.4	30.2	29.7	31.4	31	33.6	34.2	36.7	36.3	38.5	37.9
Back Pressure (InHg)	2.51	2.52	2.50	2.49	2.34	2.36	2.94	3.03	3.33	3.35	3.42	3.49	3.88	3.96	4.25	4.30
Hot Water Temp (DEGF)	99.86	99.69	102.05	101.55	104.54	104.73	111.73	112.98	115.91	115.93	116.01	116.74	120.15	120.91	123.22	123.53
Cold Water Temp (DEGF)	90.82	90.58	90.47	90.03	91.26	91.54	95.49	96.86	97.01	97.00	94.41	95.17	95.73	96.43	96.82	97.06
Wet Bulb Temperature (DEGF)	67.80	67.10	64.30	68.10	73.40	72.70	70.10	78.10	71.20	78.10	72.10	72.60	75.40	74.80	72.40	73.20
Dry Bulb Temperature (DEGF)	70.20	68.70	64.70	69.60	78.30	78.50	73.00	85.00	71.80	78.90	80.40	85.60	86.30	85.60	92.00	94.00
Coal Flow (PPH)	269300	267200	358800	363200	442200	439000	582900	578700	673700	671900	820400	824400	902900	893900	1000800	1008000
Coal Heating Value (BTU/#)	8539.0	8643.0	8751.0	8691.0	8763.0	8760.0	8521.0	8565.0	8613.0	8543.0	8449.0	8418.0	8642.0	8695.0	8681.0	8681.0
Oil Flow (BBL/HR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oil Heating Value (BTU/BBL)	5922000	5922000	5922000	5922000	5922000	5922000	5922000	5922000	5922000	5922000	5922000	5922000	5922000	5922000	5922000	5922000

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	I	X	Y
Data Input Index:	1	155.3900	2299.6000
Data Input Index:	2	156.2700	2309.4000
Data Input Index:	3	245.1700	3156.6000
Data Input Index:	4	245.6000	3139.9000
Data Input Index:	5	339.0500	3845.6000
Data Input Index:	6	344.9300	3875.0000
Data Input Index:	7	443.6800	4966.9000
Data Input Index:	8	453.3000	4956.6000
Data Input Index:	9	544.8400	5802.6000
Data Input Index:	10	555.0000	5740.0000
Data Input Index:	11	646.0400	6939.8000
Data Input Index:	12	649.0200	6931.6000
Data Input Index:	13	741.6200	7802.9000
Data Input Index:	14	747.8700	7772.5000
Data Input Index:	15	808.1600	8687.9000
Data Input Index:	16	809.7100	8750.4000

Curve Fit to the Power of 2.

Results:

X^2 = 2.73169371315478E-0003
X^1 = 6.98633185603036E+0000
X^0 = 1.19608046828396E+0003

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1160a

THE AVERAGE GROSS GENERATION IS	190.00	MWe
THE AVERAGE AUXILIARY USAGE IS	28.30	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.51	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	99.86	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	90.82	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	67.80	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	70.20	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	87.85	PCT
THE AVERAGE COAL FLOW IS	269300.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8539.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	9.04	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	86.54	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.26	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	97.54	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.03	IN-HG
THE TURBINE THROTTLE FLOW IS	1312352.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-10.23	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-7.03	%

BPCHG = 3.56
KWCHG = -3.44

THE BACKPRESSURE CORRECTION FACTOR IS	1.034360	%
THE CORRECTED GROSS GENERATION IS	183.69	MWe
THE CORRECTED NET GENERATION IS	155.39	MWe
THE UNCORRECTED NET HEAT RATE IS	14221.1	BTU/NKW
THE CORRECTED NET HEAT RATE IS	14798.7	BTU/NKW
THE TOTAL HEAT INPUT IS	2299.6	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1160b

THE AVERAGE GROSS GENERATION IS	190.00	MWe
THE AVERAGE AUXILIARY USAGE IS	26.90	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.52	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	99.69	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	90.58	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	67.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	68.70	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	91.19	PCT
THE AVERAGE COAL FLOW IS	267200.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8643.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	9.11	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	85.77	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.13	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	97.94	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.09	IN-HG
THE TURBINE THROTTLE FLOW IS	1313371.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-10.16	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-6.69	%

BPCHG = 3.87
KWCHG = -3.73

THE BACKPRESSURE CORRECTION FACTOR IS	1.037267	%
THE CORRECTED GROSS GENERATION IS	183.17	MWe
THE CORRECTED NET GENERATION IS	156.27	MWe
THE UNCORRECTED NET HEAT RATE IS	14159.5	BTU/NKW
THE CORRECTED NET HEAT RATE IS	14778.0	BTU/NKW
THE TOTAL HEAT INPUT IS	2309.4	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1250a

THE AVERAGE GROSS GENERATION IS	282.00	MWe
THE AVERAGE AUXILIARY USAGE IS	26.60	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.50	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	102.05	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	90.47	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	64.30	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	64.70	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	96.60	PCT
THE AVERAGE COAL FLOW IS	358800.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8751.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	11.58	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	84.06	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.07	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	99.48	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.21	IN-HG
THE TURBINE THROTTLE FLOW IS	1887191.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-8.93	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-5.53	%

BPCHG = 3.73
KWCHG = -3.60

THE BACKPRESSURE CORRECTION FACTOR IS	1.035986	%
THE CORRECTED GROSS GENERATION IS	272.20	MWe
THE CORRECTED NET GENERATION IS	245.60	MWe
THE UNCORRECTED NET HEAT RATE IS	12293.9	BTU/NKW
THE CORRECTED NET HEAT RATE IS	12784.2	BTU/NKW
THE TOTAL HEAT INPUT IS	3139.9	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1250b

THE AVERAGE GROSS GENERATION IS	280.00	MWe
THE AVERAGE AUXILIARY USAGE IS	27.70	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.49	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	101.55	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	90.03	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	68.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	69.60	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	91.74	PCT
THE AVERAGE COAL FLOW IS	363200.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8691.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	11.52	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	86.68	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.26	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	96.62	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.99	IN-HG
THE TURBINE THROTTLE FLOW IS	1873964.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-9.01	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-6.57	%

BPCHG = 2.68
KWCHG = -2.61

THE BACKPRESSURE CORRECTION FACTOR IS	1.026116	%
THE CORRECTED GROSS GENERATION IS	272.87	MWe
THE CORRECTED NET GENERATION IS	245.17	MWe
THE UNCORRECTED NET HEAT RATE IS	12511.2	BTU/NKW
THE CORRECTED NET HEAT RATE IS	12874.8	BTU/NKW
THE TOTAL HEAT INPUT IS	3156.6	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1350a

THE AVERAGE GROSS GENERATION IS	377.00	MWe
THE AVERAGE AUXILIARY USAGE IS	28.50	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.34	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	103.43	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	90.15	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	73.40	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	78.30	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	79.58	PCT
THE AVERAGE COAL FLOW IS	442200.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8763.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	13.28	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	90.55	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.86	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	93.46	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.57	IN-HG
THE TURBINE THROTTLE FLOW IS	2450656.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-8.28	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-7.39	%

BPCHG = 0.97
KWCHG = -0.96

THE BACKPRESSURE CORRECTION FACTOR IS	1.009565	%
THE CORRECTED GROSS GENERATION IS	373.43	MWe
THE CORRECTED NET GENERATION IS	344.93	MWe
THE UNCORRECTED NET HEAT RATE IS	11119.1	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11234.2	BTU/NKW
THE TOTAL HEAT INPUT IS	3875.0	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1350b

THE AVERAGE GROSS GENERATION IS	372.00	MWe
THE AVERAGE AUXILIARY USAGE IS	29.40	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.36	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	103.72	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	90.53	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	72.70	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	78.50	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	76.19	PCT
THE AVERAGE COAL FLOW IS	439000.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8760.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	13.19	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	90.73	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.99	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	93.79	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.59	IN-HG
THE TURBINE THROTTLE FLOW IS	2422036.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-8.27	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-7.38	%

BPCHG = 0.97
KWCHG = -0.96

THE BACKPRESSURE CORRECTION FACTOR IS	1.009635	%
THE CORRECTED GROSS GENERATION IS	368.45	MWe
THE CORRECTED NET GENERATION IS	339.05	MWe
THE UNCORRECTED NET HEAT RATE IS	11224.9	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11342.4	BTU/NKW
THE TOTAL HEAT INPUT IS	3845.6	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1450a

THE AVERAGE GROSS GENERATION IS	481.00	MWe
THE AVERAGE AUXILIARY USAGE IS	30.20	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.94	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	111.34	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	95.10	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	70.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	73.00	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	86.26	PCT
THE AVERAGE COAL FLOW IS	582900.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8521.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	16.24	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	88.55	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.78	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	100.34	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.40	IN-HG
THE TURBINE THROTTLE FLOW IS	3128316.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-4.96	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-3.51	%

BPCHG = 1.53
KWCHG = -1.50

THE BACKPRESSURE CORRECTION FACTOR IS	1.015024	%
THE CORRECTED GROSS GENERATION IS	473.88	MWe
THE CORRECTED NET GENERATION IS	443.68	MWe
THE UNCORRECTED NET HEAT RATE IS	11017.9	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11194.8	BTU/NKW
THE TOTAL HEAT INPUT IS	4966.9	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1450b

THE AVERAGE GROSS GENERATION IS	483.00	MWe
THE AVERAGE AUXILIARY USAGE IS	29.70	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.03	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	112.40	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	96.28	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	78.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	85.00	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	74.18	PCT
THE AVERAGE COAL FLOW IS	578700.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8565.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	16.12	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	94.28	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.28	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	96.28	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.03	IN-HG
THE TURBINE THROTTLE FLOW IS	3148795.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-4.66	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-4.66	%

BPCHG = 0.00
KWCHG = 0.00

THE BACKPRESSURE CORRECTION FACTOR IS	1.000000	%
THE CORRECTED GROSS GENERATION IS	483.00	MWe
THE CORRECTED NET GENERATION IS	453.30	MWe
THE UNCORRECTED NET HEAT RATE IS	10934.4	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10934.4	BTU/NKW
THE TOTAL HEAT INPUT IS	4956.6	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1550a

THE AVERAGE GROSS GENERATION IS	583.00	MWe
THE AVERAGE AUXILIARY USAGE IS	31.40	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.33	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	115.76	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	96.86	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	71.20	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	71.80	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	95.97	PCT
THE AVERAGE COAL FLOW IS	673700.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8613.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	18.90	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	89.15	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.57	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	101.28	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.76	IN-HG
THE TURBINE THROTTLE FLOW IS	3809793.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-3.12	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-1.97	%

BPCHG = 1.19
KWCHG = -1.17

THE BACKPRESSURE CORRECTION FACTOR IS	1.011726	%
THE CORRECTED GROSS GENERATION IS	576.24	MWe
THE CORRECTED NET GENERATION IS	544.84	MWe
THE UNCORRECTED NET HEAT RATE IS	10519.5	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10650.0	BTU/NKW
THE TOTAL HEAT INPUT IS	5802.6	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1550b

THE AVERAGE GROSS GENERATION IS	586.00	MWe
THE AVERAGE AUXILIARY USAGE IS	31.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.35	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	115.93	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	97.00	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	78.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	78.90	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	96.07	PCT
THE AVERAGE COAL FLOW IS	671900.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8543.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	18.93	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	93.57	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.57	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	97.00	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.35	IN-HG
THE TURBINE THROTTLE FLOW IS	3830670.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-3.05	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-3.05	%

BPCHG = 0.00
KWCHG = 0.00

THE BACKPRESSURE CORRECTION FACTOR IS	1.000000	%
THE CORRECTED GROSS GENERATION IS	586.00	MWe
THE CORRECTED NET GENERATION IS	555.00	MWe
THE UNCORRECTED NET HEAT RATE IS	10342.4	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10342.4	BTU/NKW
THE TOTAL HEAT INPUT IS	5740.0	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1650a

THE AVERAGE GROSS GENERATION IS	688.00	MWe
THE AVERAGE AUXILIARY USAGE IS	33.60	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.42	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	116.01	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	94.41	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	72.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	80.40	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	67.63	PCT
THE AVERAGE COAL FLOW IS	820400.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8449.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	21.60	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	91.30	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	95.04	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	98.14	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.79	IN-HG
THE TURBINE THROTTLE FLOW IS	4504030.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-2.36	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-1.58	%

BPCHG = 0.80
KWCHG = -0.79

THE BACKPRESSURE CORRECTION FACTOR IS	1.007889	%
THE CORRECTED GROSS GENERATION IS	682.62	MWe
THE CORRECTED NET GENERATION IS	649.02	MWe
THE UNCORRECTED NET HEAT RATE IS	10592.2	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10680.1	BTU/NKW
THE TOTAL HEAT INPUT IS	6931.6	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1650b

THE AVERAGE GROSS GENERATION IS	685.00	MWe
THE AVERAGE AUXILIARY USAGE IS	34.20	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.49	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	116.74	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	95.17	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	72.60	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	85.60	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	53.94	PCT
THE AVERAGE COAL FLOW IS	824400.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8418.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	21.57	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	92.70	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	95.89	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	98.36	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.81	IN-HG
THE TURBINE THROTTLE FLOW IS	4490272.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-2.23	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-1.54	%

BPCHG = 0.71
KWCHG = -0.70

THE BACKPRESSURE CORRECTION FACTOR IS	1.007003	%
THE CORRECTED GROSS GENERATION IS	680.24	MWe
THE CORRECTED NET GENERATION IS	646.04	MWe
THE UNCORRECTED NET HEAT RATE IS	10663.5	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10742.1	BTU/NKW
THE TOTAL HEAT INPUT IS	6939.8	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1750a

THE AVERAGE GROSS GENERATION IS	781.00	MWe
THE AVERAGE AUXILIARY USAGE IS	36.70	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.88	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	120.15	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	95.73	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	75.40	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	86.30	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	61.00	PCT
THE AVERAGE COAL FLOW IS	902900.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8642.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	24.42	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	93.70	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	95.61	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	97.63	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	4.08	IN-HG
THE TURBINE THROTTLE FLOW IS	5230715.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-1.11	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-0.77	%

BPCHG = 0.35
KWCHG = -0.34

THE BACKPRESSURE CORRECTION FACTOR IS	1.003445	%
THE CORRECTED GROSS GENERATION IS	778.32	MWe
THE CORRECTED NET GENERATION IS	741.62	MWe
THE UNCORRECTED NET HEAT RATE IS	10483.5	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10521.4	BTU/NKW
THE TOTAL HEAT INPUT IS	7802.9	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1750b

THE AVERAGE GROSS GENERATION IS	787.00	MWe
THE AVERAGE AUXILIARY USAGE IS	36.30	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.96	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	120.91	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	96.43	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	74.80	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	85.60	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	61.07	PCT
THE AVERAGE COAL FLOW IS	893900.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8695.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	24.48	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	93.70	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	95.61	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	98.33	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	4.17	IN-HG
THE TURBINE THROTTLE FLOW IS	5286214.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-0.96	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-0.60	%

BPCHG = 0.36
KWCHG = -0.36

THE BACKPRESSURE CORRECTION FACTOR IS	1.003612	%
THE CORRECTED GROSS GENERATION IS	784.17	MWe
THE CORRECTED NET GENERATION IS	747.87	MWe
THE UNCORRECTED NET HEAT RATE IS	10353.6	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10392.8	BTU/NKW
THE TOTAL HEAT INPUT IS	7772.5	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1fulla

THE AVERAGE GROSS GENERATION IS	853.00	MWe
THE AVERAGE AUXILIARY USAGE IS	38.50	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	4.25	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	123.22	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	96.82	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	72.40	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	92.00	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	37.21	PCT
THE AVERAGE COAL FLOW IS	1000800.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8681.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	26.40	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	94.10	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	98.10	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	100.82	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	4.72	IN-HG
THE TURBINE THROTTLE FLOW IS	5813573.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-0.39	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	0.37	%

BPCHG = 0.75
KWCHG = -0.75

THE BACKPRESSURE CORRECTION FACTOR IS	1.007486	%
THE CORRECTED GROSS GENERATION IS	846.66	MWe
THE CORRECTED NET GENERATION IS	808.16	MWe
THE UNCORRECTED NET HEAT RATE IS	10666.6	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10750.3	BTU/NKW
THE TOTAL HEAT INPUT IS	8687.9	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit One

MEASURED TEST INPUTS FROM FILE 1fullb

THE AVERAGE GROSS GENERATION IS	853.00	MWe
THE AVERAGE AUXILIARY USAGE IS	37.90	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	4.30	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	123.53	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	97.06	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	73.20	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	94.00	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	34.83	PCT
THE AVERAGE COAL FLOW IS	1008000.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8681.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	26.47	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	95.04	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	98.42	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	100.45	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	4.70	IN-HG
THE TURBINE THROTTLE FLOW IS	5818548.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-0.31	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	0.33	%

BPCHG = 0.64
KWCHG = -0.64

THE BACKPRESSURE CORRECTION FACTOR IS	1.006361	%
THE CORRECTED GROSS GENERATION IS	847.61	MWe
THE CORRECTED NET GENERATION IS	809.71	MWe
THE UNCORRECTED NET HEAT RATE IS	10735.4	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10806.9	BTU/NKW
THE TOTAL HEAT INPUT IS	8750.4	MMBTU

ENTERGY

Inter-Office Correspondence

Date: July 18, 1995

To:
Mr. Jim Campbell	T-EP-16
Mr. Mike Bakewell	T-EP-16
Mr. Lynn Sanders	A-WB
Mr. William Phillips	A-SOC
Mr. Henry Thompson	A-TCBY-23G

From:
Pat Klepper	Phone: 8-762-4529
Roger Lawson	Phone: 8-764-7329

Subject: **1995 White Bluff Plant - Heat Rate Test Results**

Heat rate tests were performed on both White Bluff Units from June 20 through June 30. Co-owners were notified prior to the tests and representatives of Arkansas Electric Co-operative were present to observe the testing. Testing was performed in an unbiased manner per Entergy procedure dated November 30, 1992. The Unit 2 load range was restricted due to air preheater flow restrictions.

Our calculations, analysis, and review are now complete and the results are attached for your reference. It is our recommendation that the results be implemented for dispatch and co-owner billing. The new coefficients for the heat rate equations are;

Unit One

X^2 = 2.73169371315478E-0003
X^1 = 6.98633185603036E+0000
X^0 = 1.19608046828396E+0003

Unit Two

X^2 = 1.32874423471649E-0003
X^1 = 8.42371123335924E+0000
X^0 = 9.53025351923540E+0002

If you need any additional information, please do not hesitate to contact either Roger Lawson or Pat Klepper.

Pat Klepper

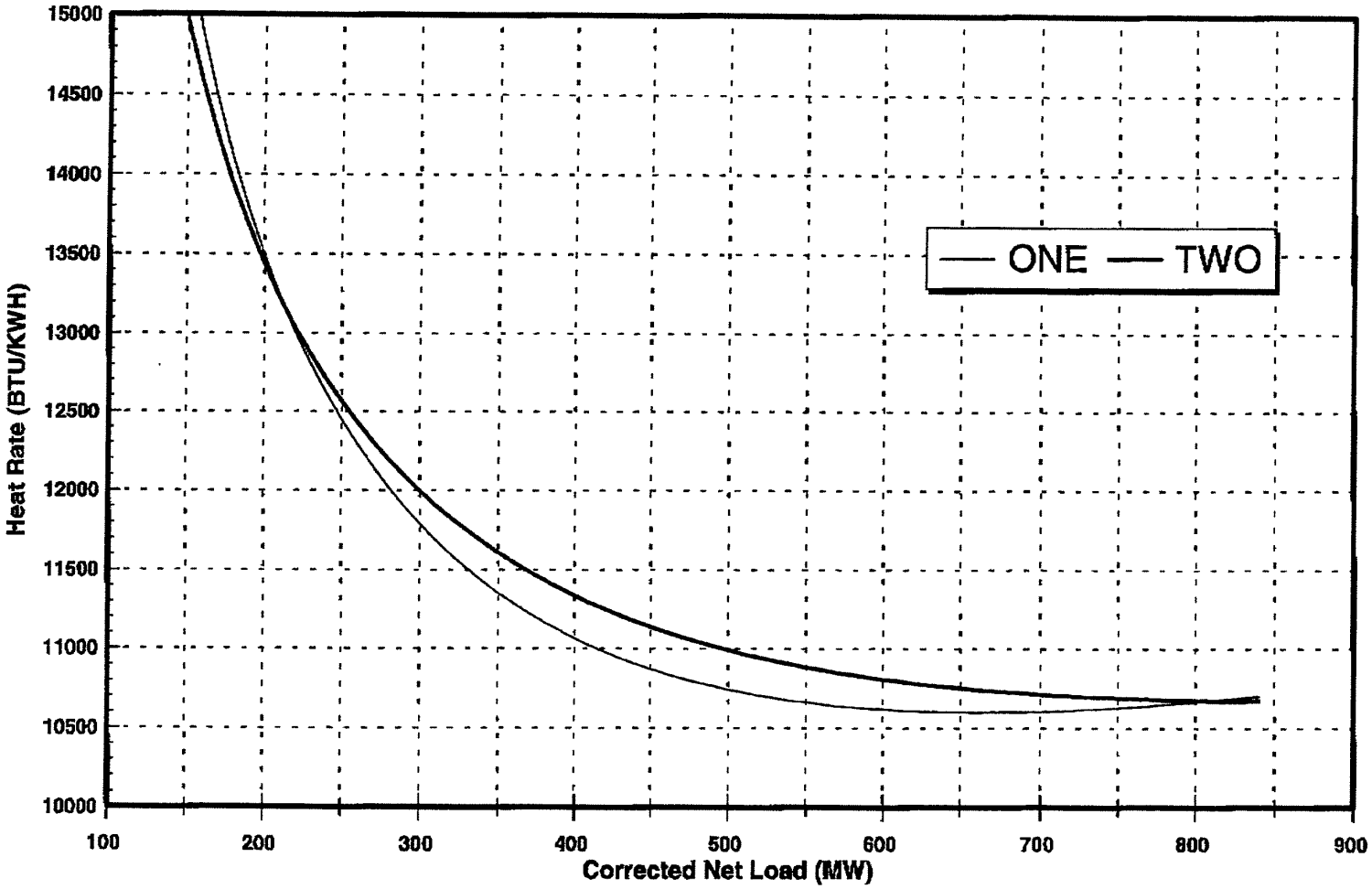
WPK/wpk

w/Attachments

c:	George Eubanks	A-WB-SC
	Phil Carter	A-SOC
	Robert Rickett	A-WB
	David Harris	A.E.C.C.

White Bluff Plant

1995 Heat Rate Test Results



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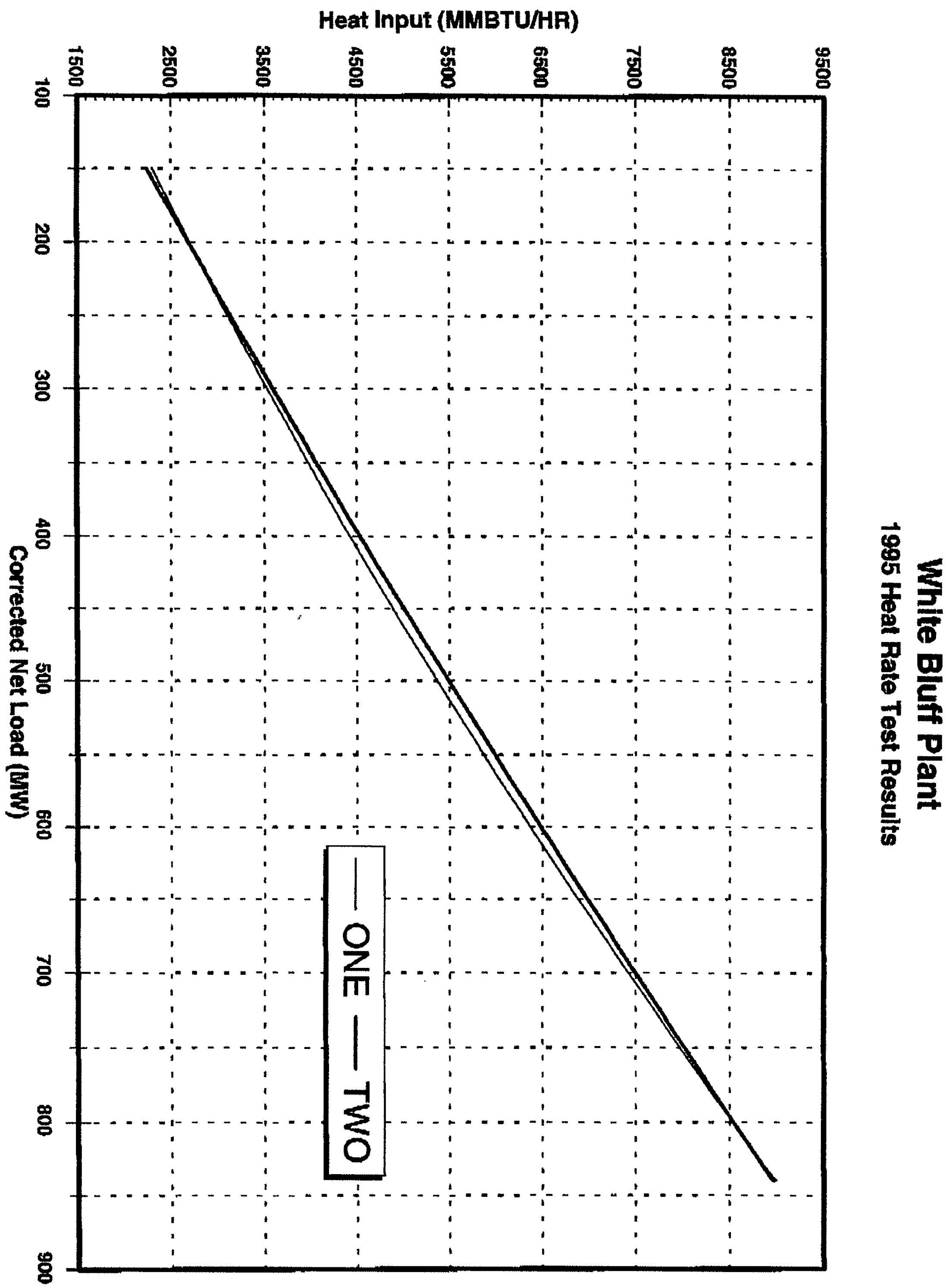

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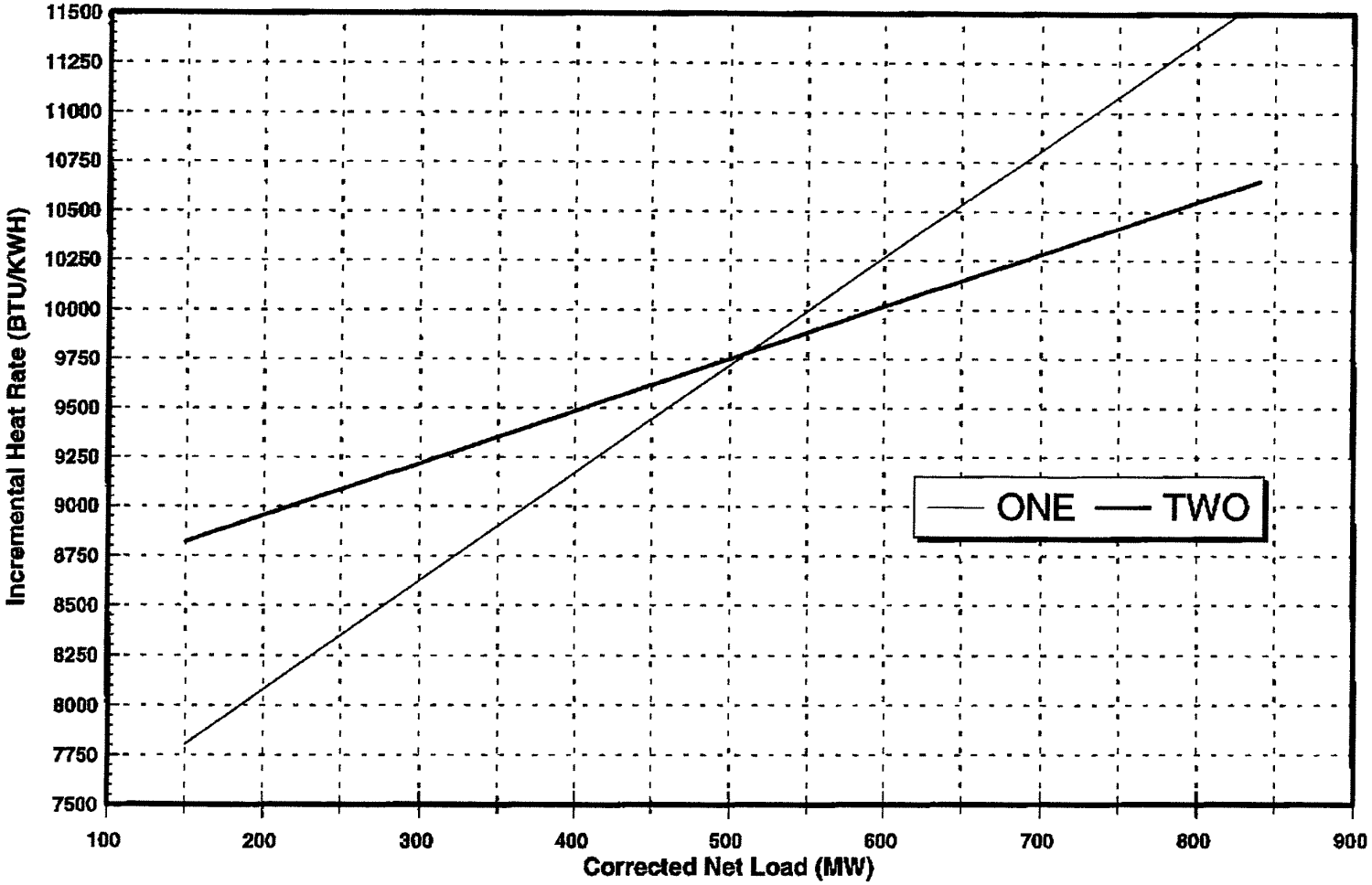
10/03/95 08:55 501 698 4512 IND. PLANT →→→ PLANT SUPPORT 004/020

White Bluff Plant

1995 Heat Rate Test Results



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White Bluff Plant - Unit One
Heat Rate Test Results
1995

CORRECTED NET MW	HEAT INPUT MMBTU/HR
155.3900	2299.6000
156.2700	2309.4000
245.1700	3156.6000
245.6000	3139.9000
339.0500	3845.6000
344.9300	3875.0000
443.6800	4966.9000
453.3000	4956.6000
544.8400	5802.6000
555.0000	5740.0000
646.0400	6939.8000
649.0200	6931.6000
741.6200	7802.9000
747.8700	7772.5000
808.1600	8687.9000
809.7100	8750.4000

HEAT INPUT EQUATION

$$HEATINPUT(MMBTU/HR) = 1196.080468 + 6.986332 \times MW + 0.002731694 \times MW^2$$

HEAT RATE EQUATION

$$HEATRATE(BTU/KWH) = \frac{1000 \times HEATINPUT}{MW}$$

INCREMENTAL HEAT RATE EQUATION

$$INCREMENTALHEATRATE(BTU/KWH) = [6.986332 + 0.0054634 \times MW] \times 1000$$

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

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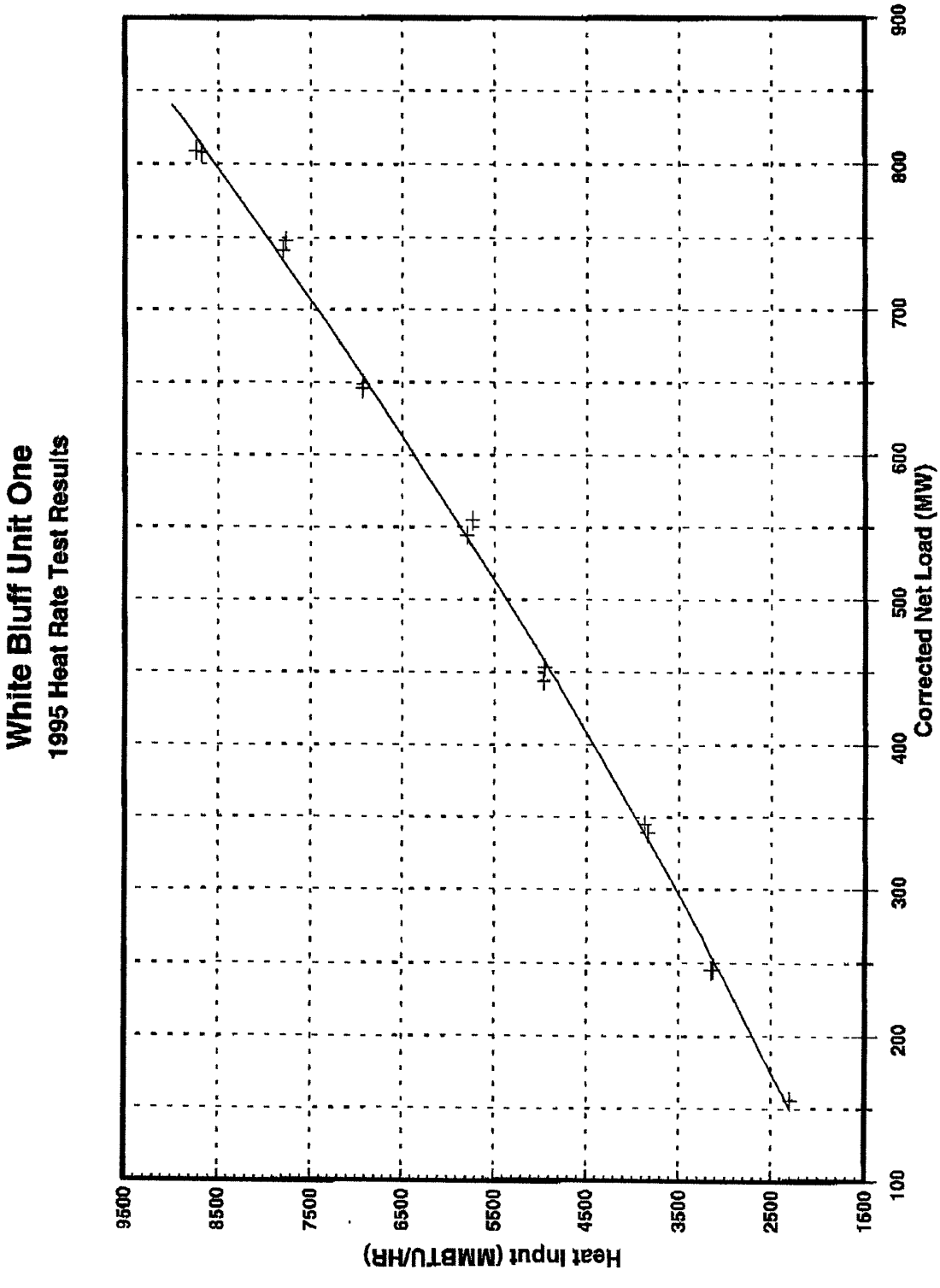

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Claim Withdrawn. Contains No CBI. 06/29/2016_YD

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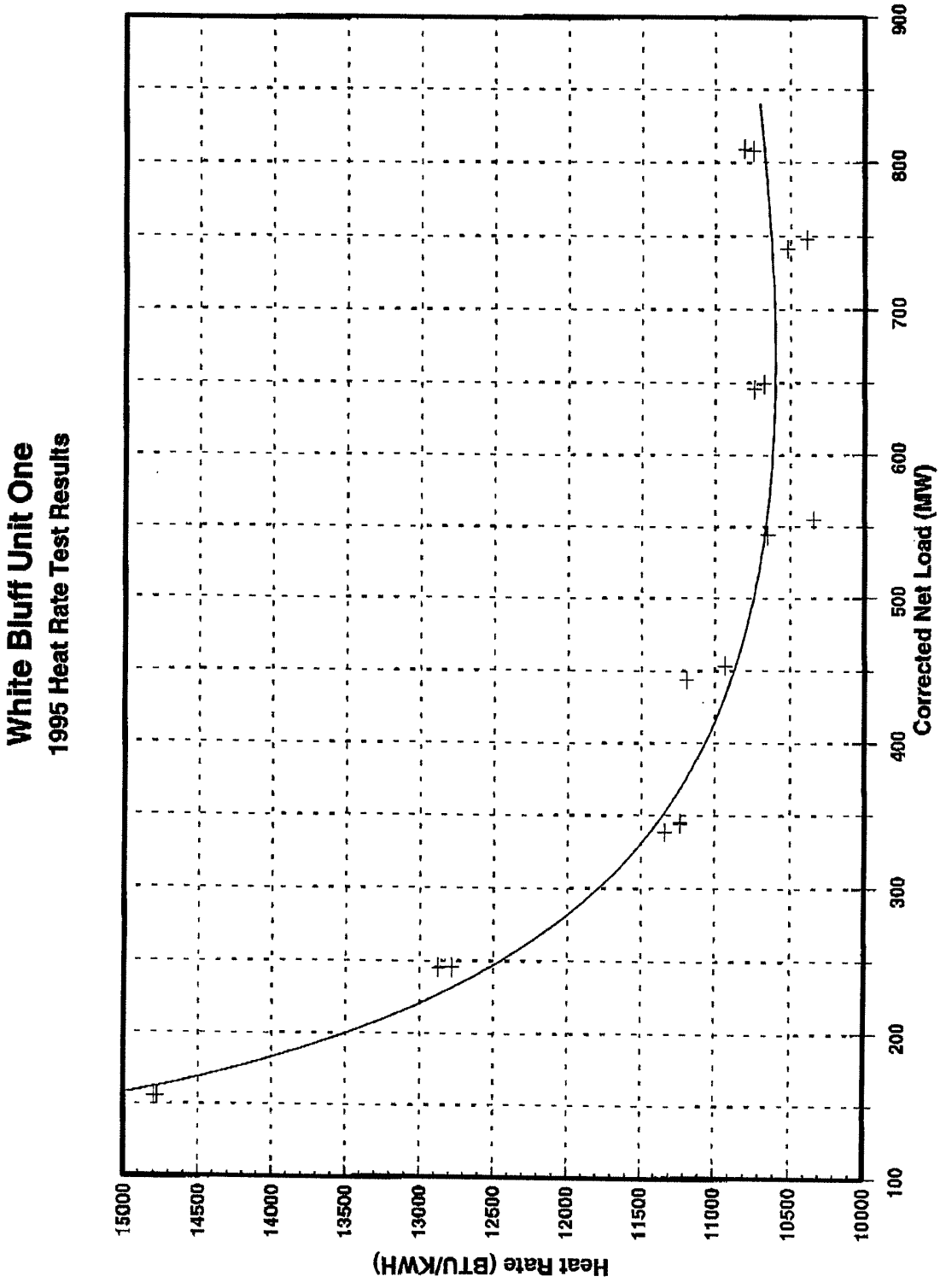

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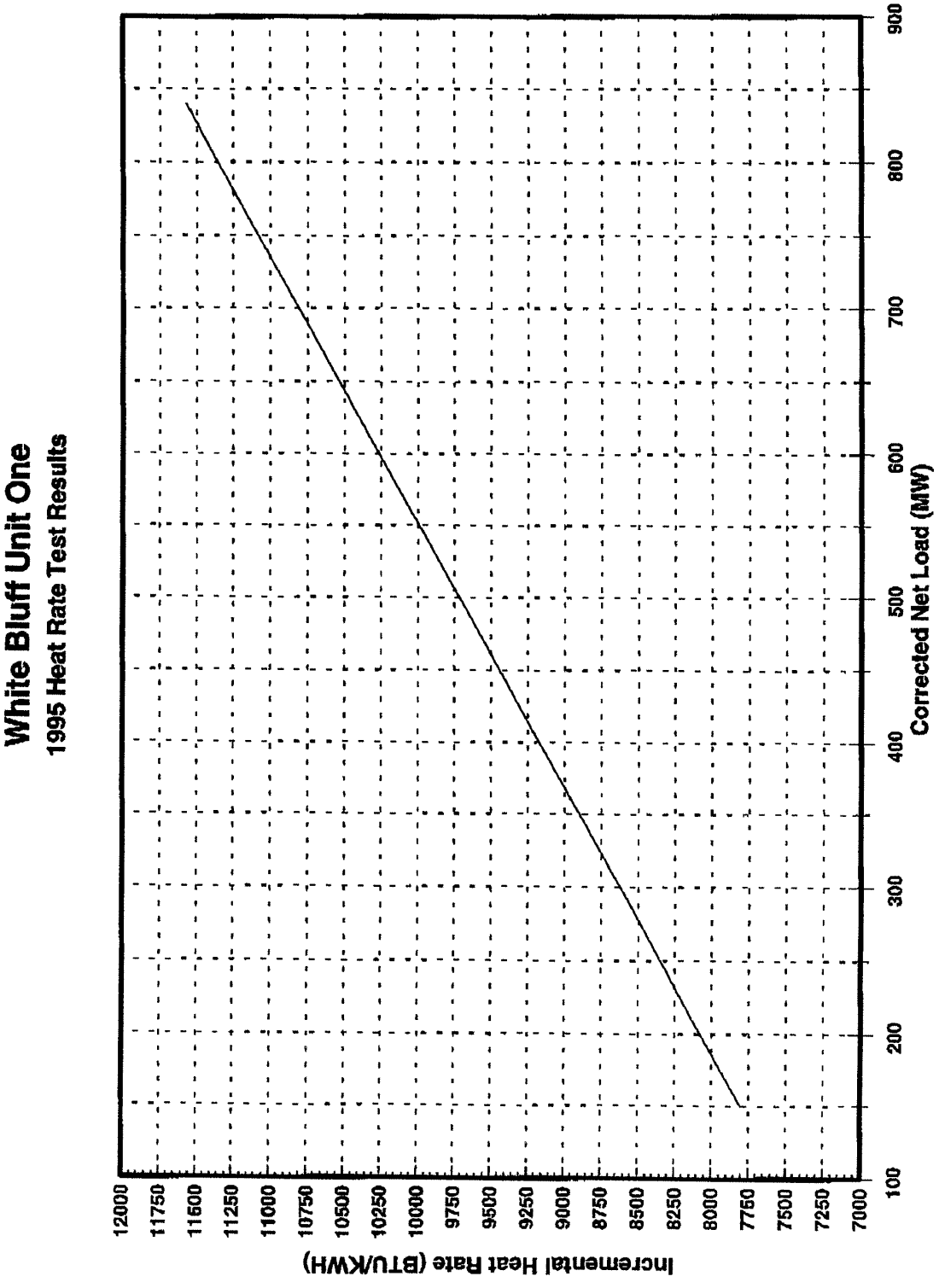

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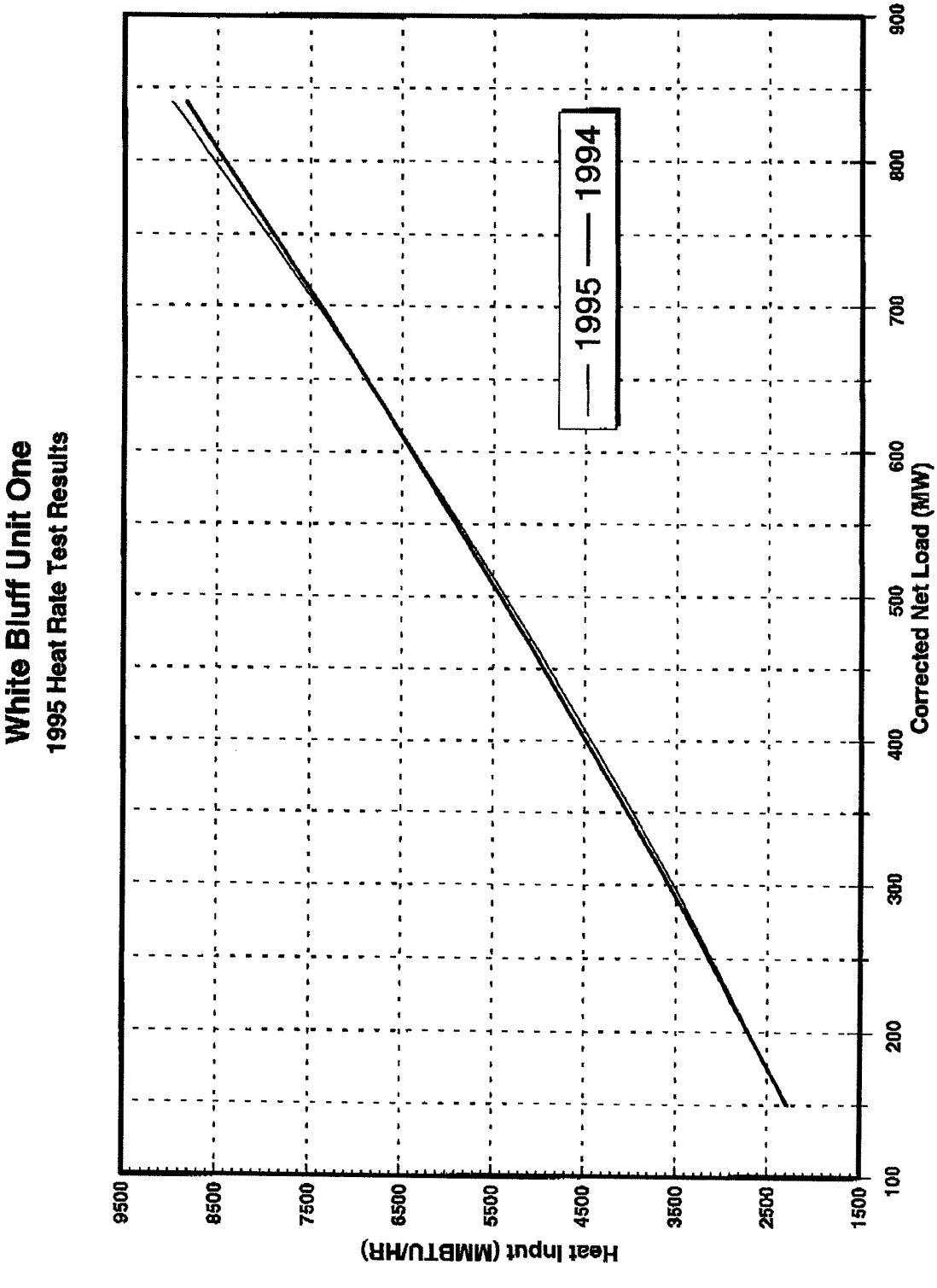

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Claim Withdrawn. Contains No CBI. 06/29/2016_YD

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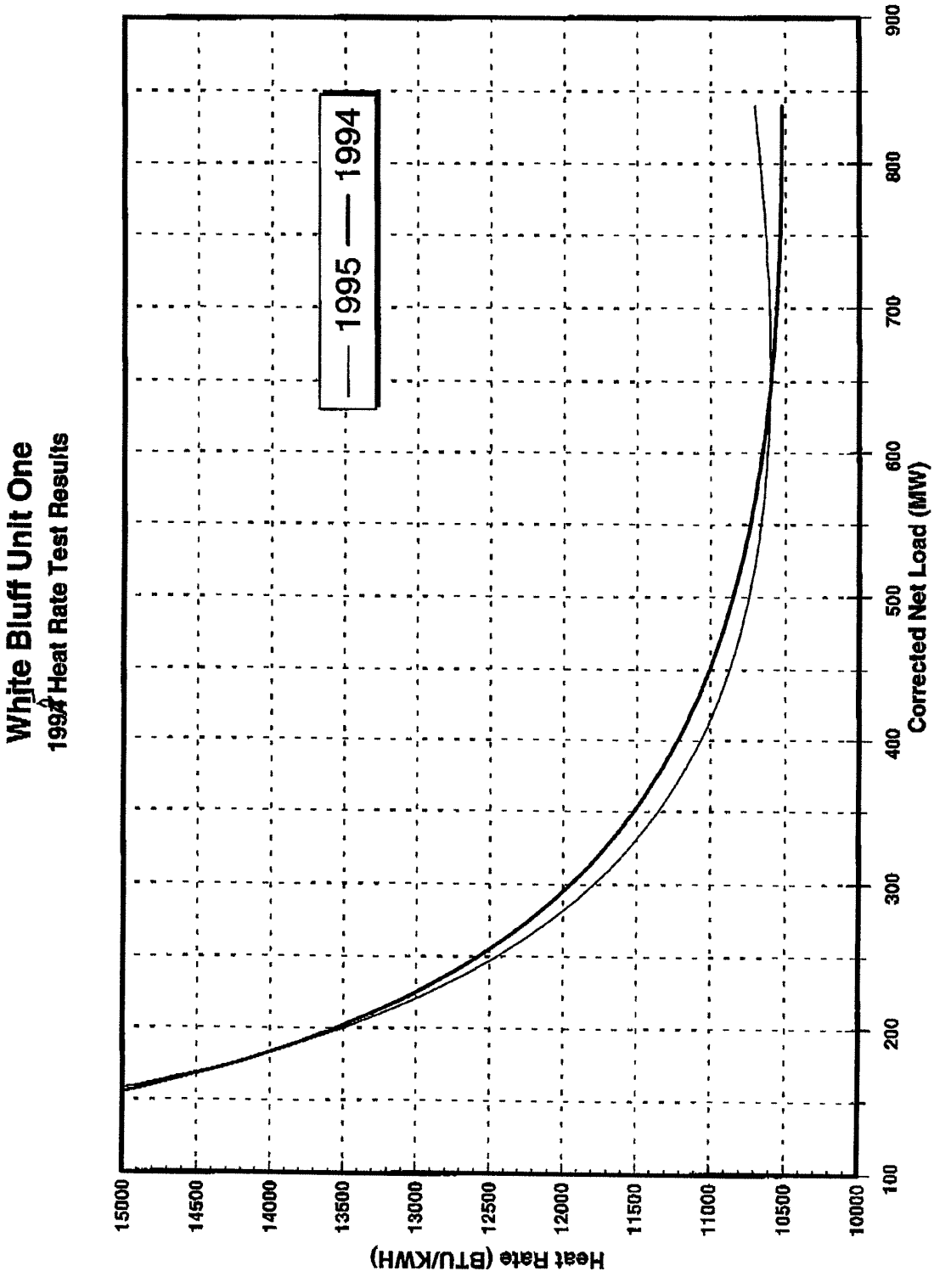

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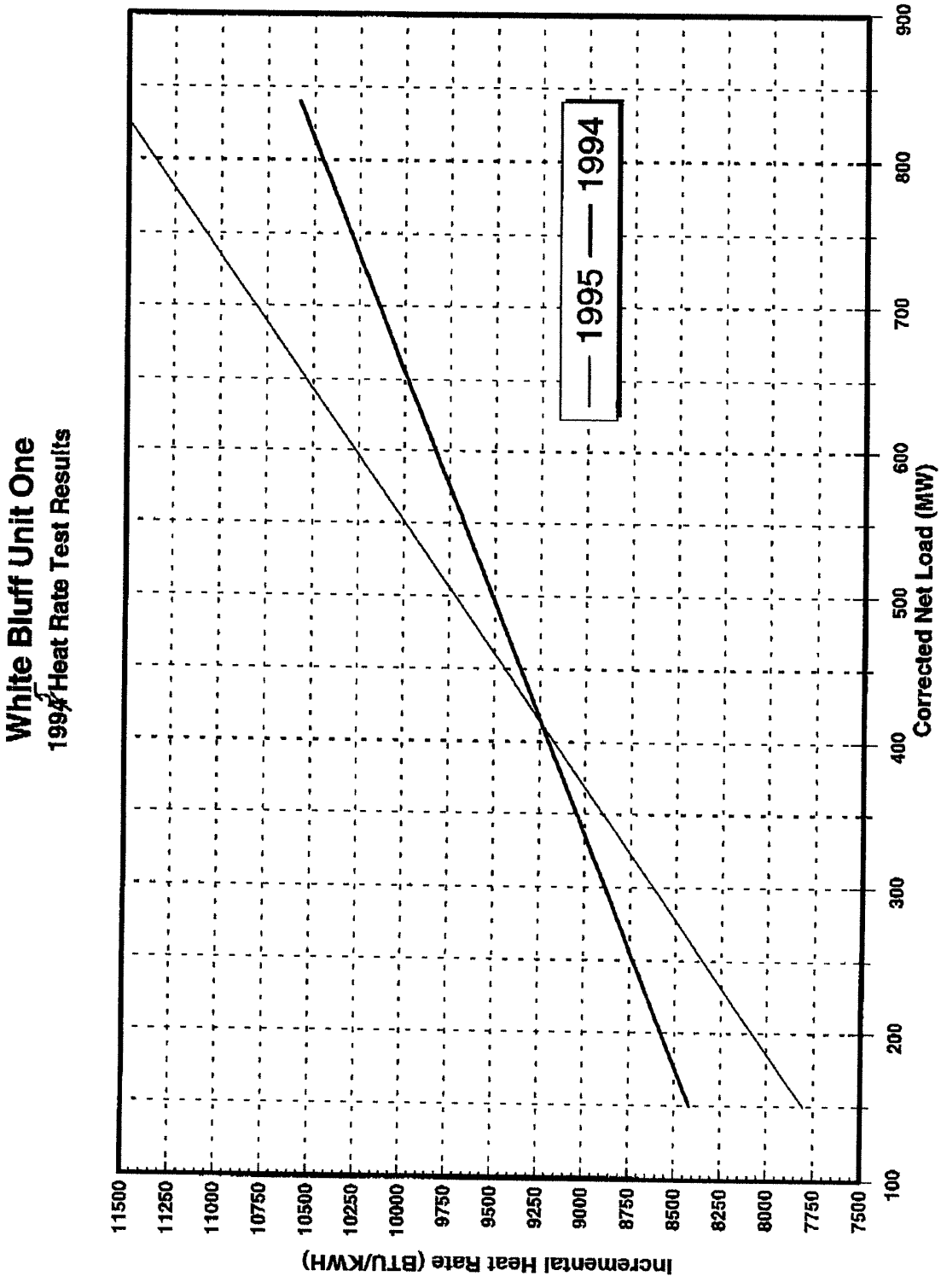

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Confidential Business Information

White Bluff Plant - Unit Two
Heat Rate Test Results
1995

CORRECTED NET MW	HEAT INPUT MMBTU/HR
157.9900	2330.5000
160.6000	2299.8000
235.2000	3044.8000
236.1900	3016.8000
315.1100	3729.4000
316.6100	3726.1000
382.0200	4401.2000
385.7700	4399.1000
464.1100	5223.8000
467.8000	5183.7000
552.5000	5977.2000
553.6000	5951.4000
626.2300	6753.1000
631.8600	6778.6000
695.7500	7525.3000
697.6000	7456.9000

HEAT INPUT EQUATION

$$HEATINPUT(MMBTU/HR) = 953.025352 + 8.423711 \times MW + 0.001326744 \times MW^2$$

HEAT RATE EQUATION

$$HEATRATE(BTU/KWH) = \frac{1000 \times HEATINPUT}{MW}$$

INCREMENTAL HEAT RATE EQUATION

$$INCREMENTALHEATRATE(BTU/KWH) = [8.423711 + 0.0026575 \times MW] \times 1000$$

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

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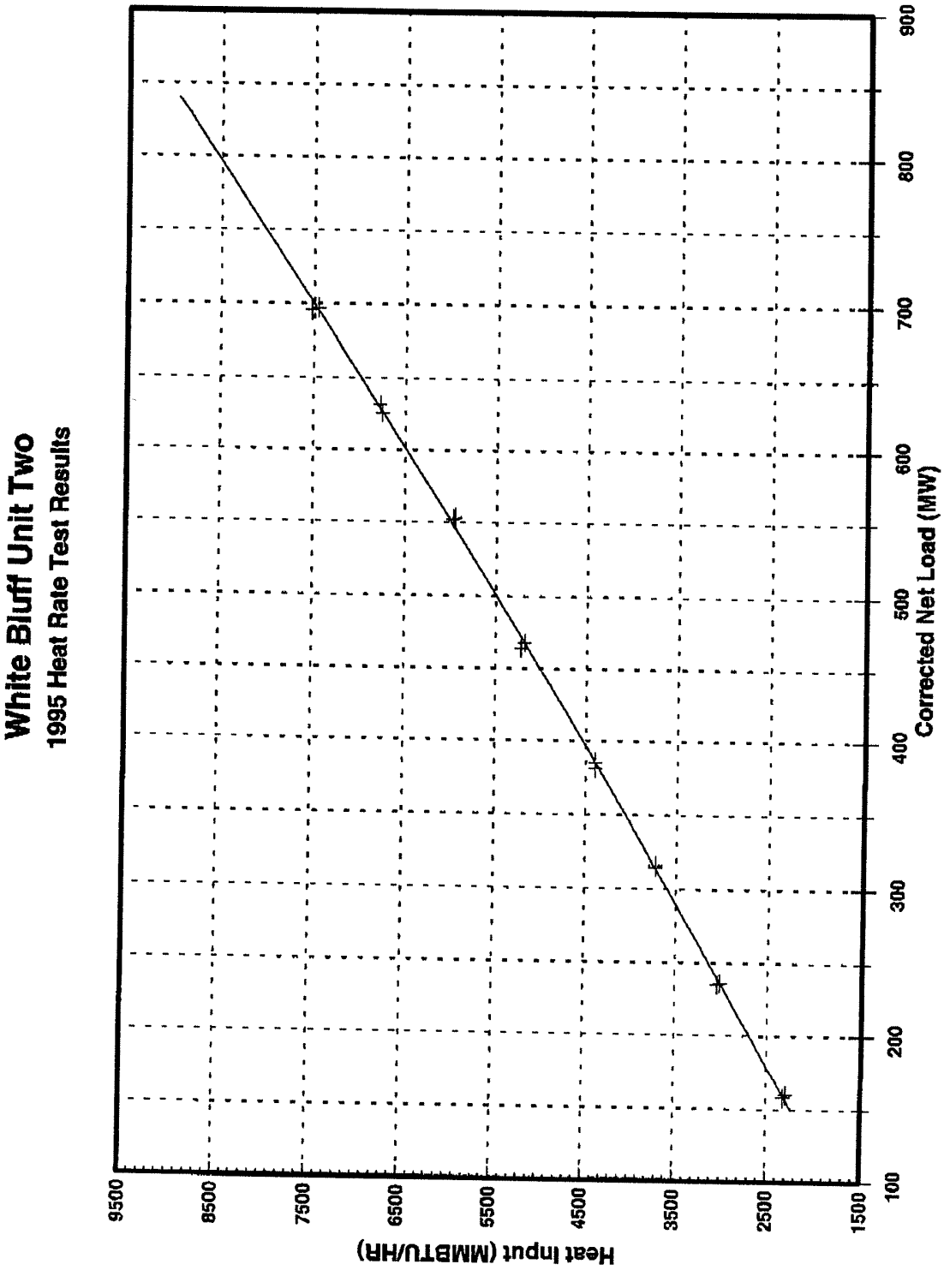
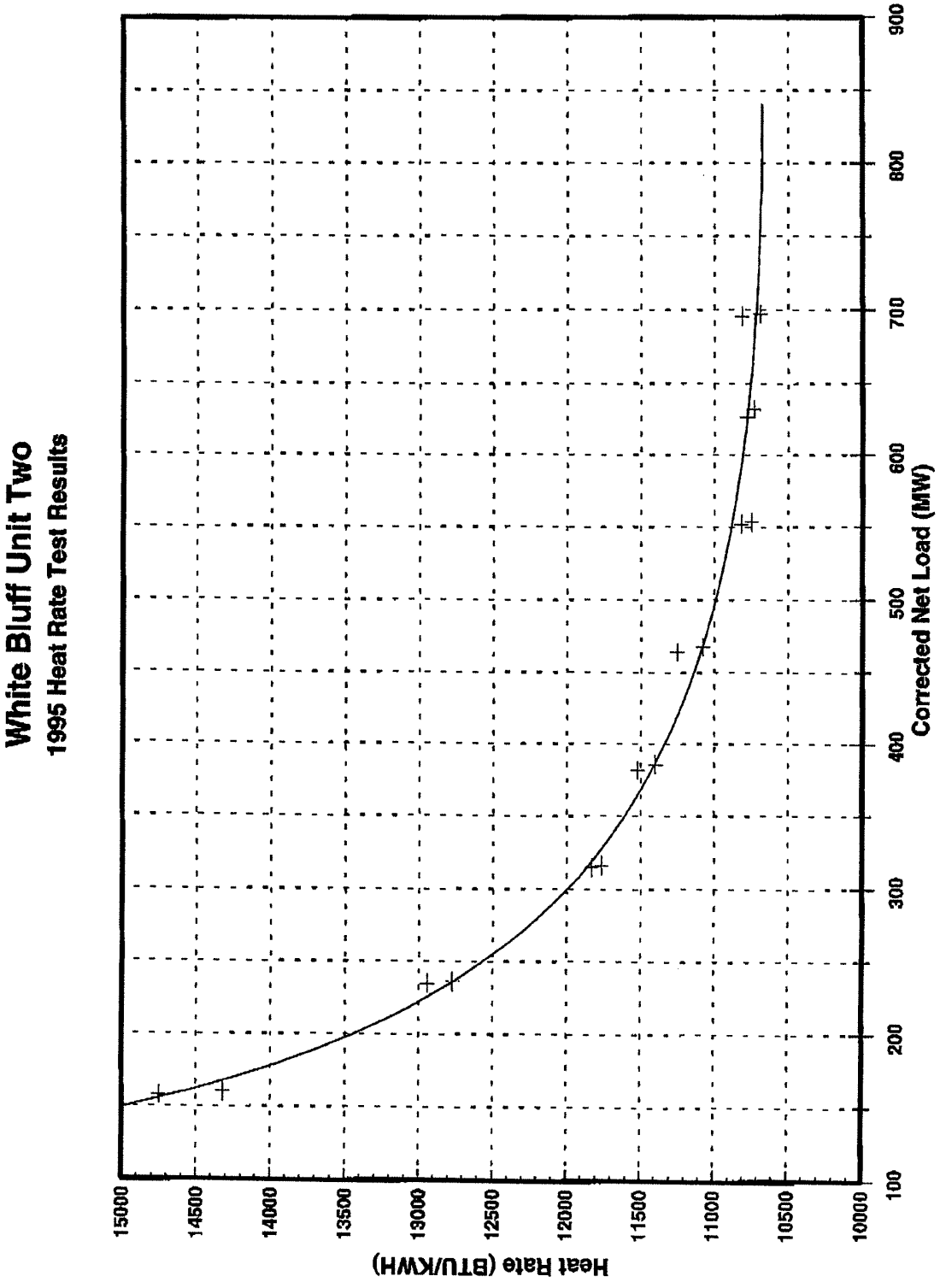


Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

07/18/96



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Confidential Business Information

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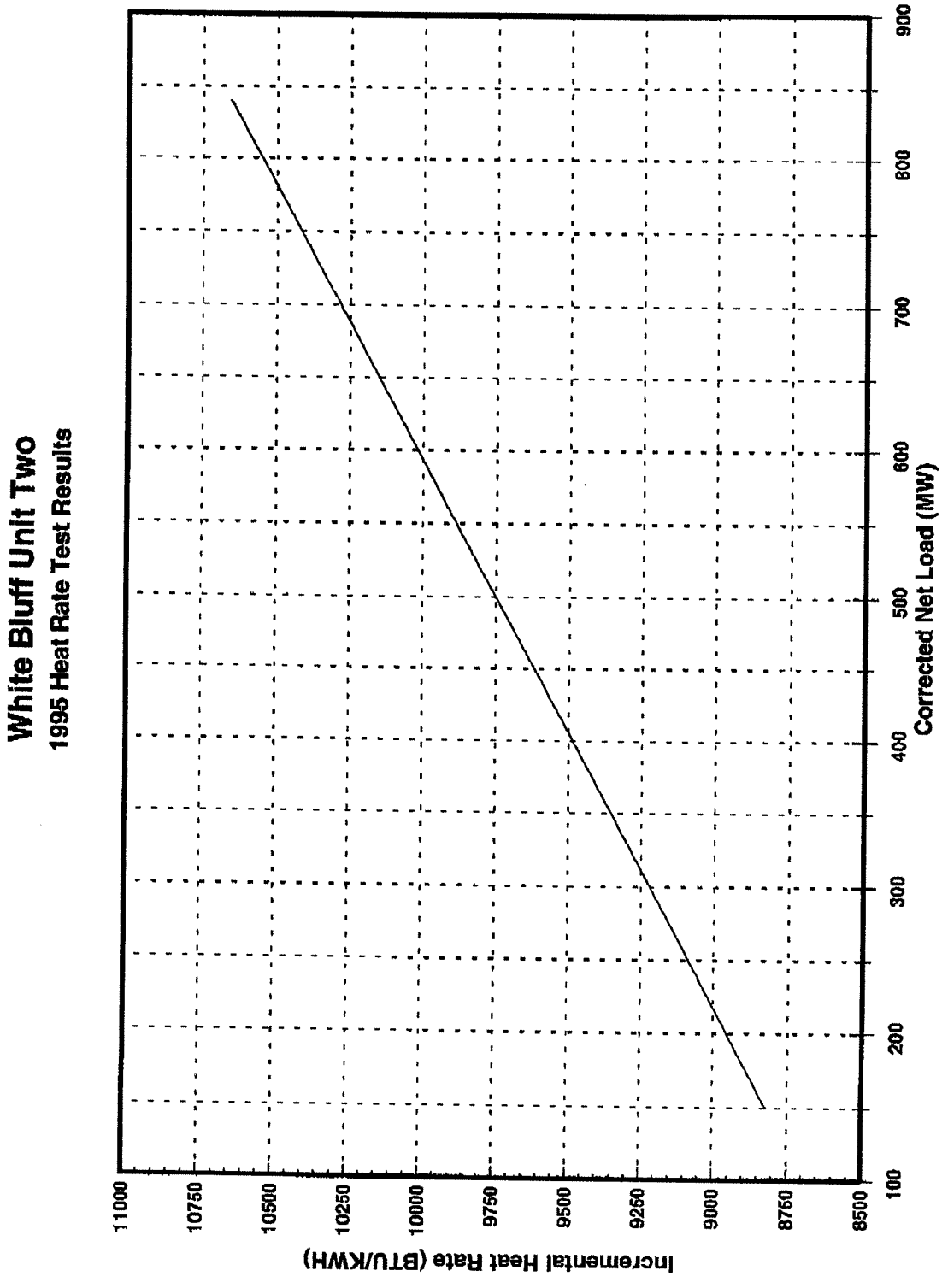

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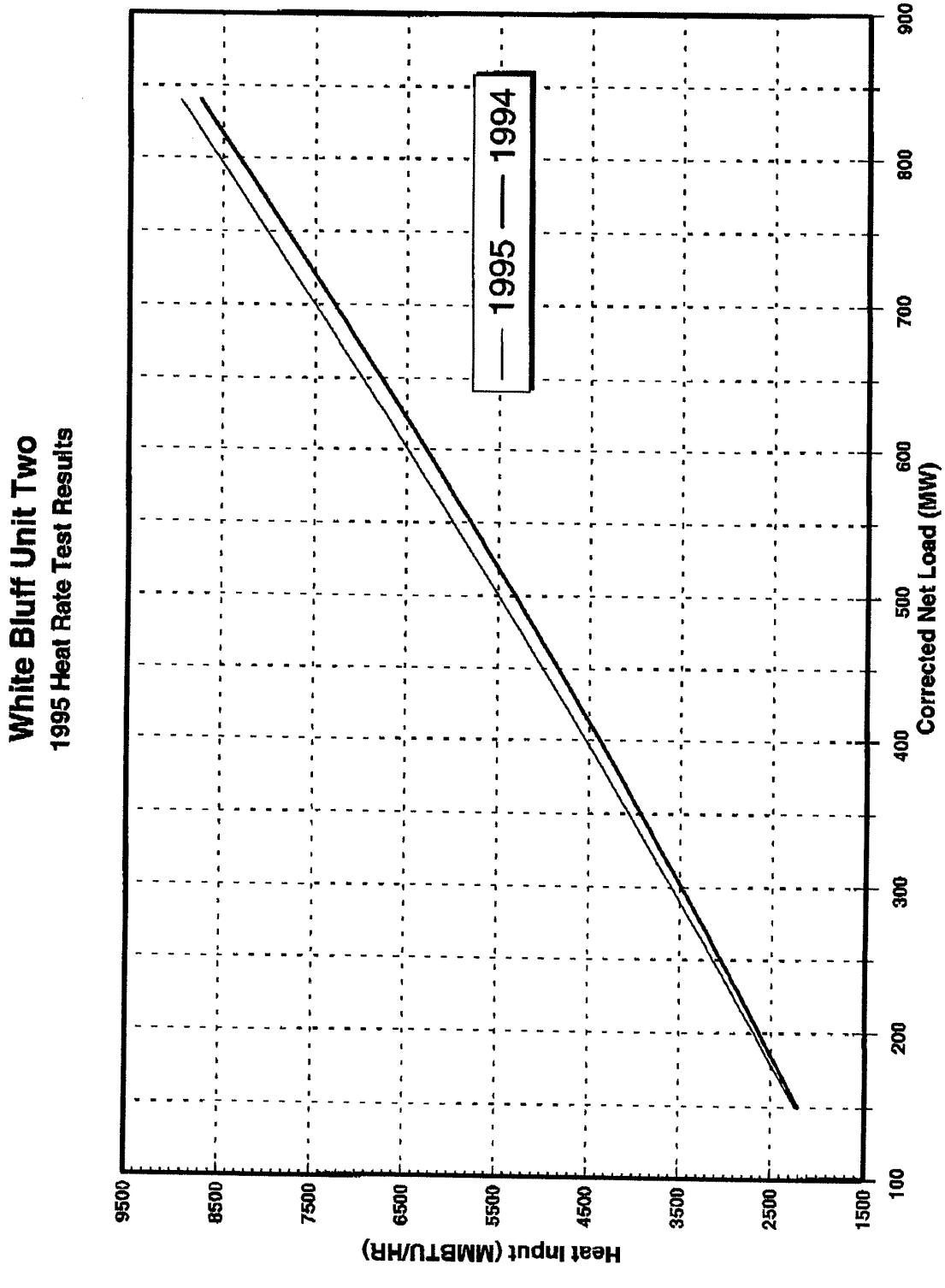

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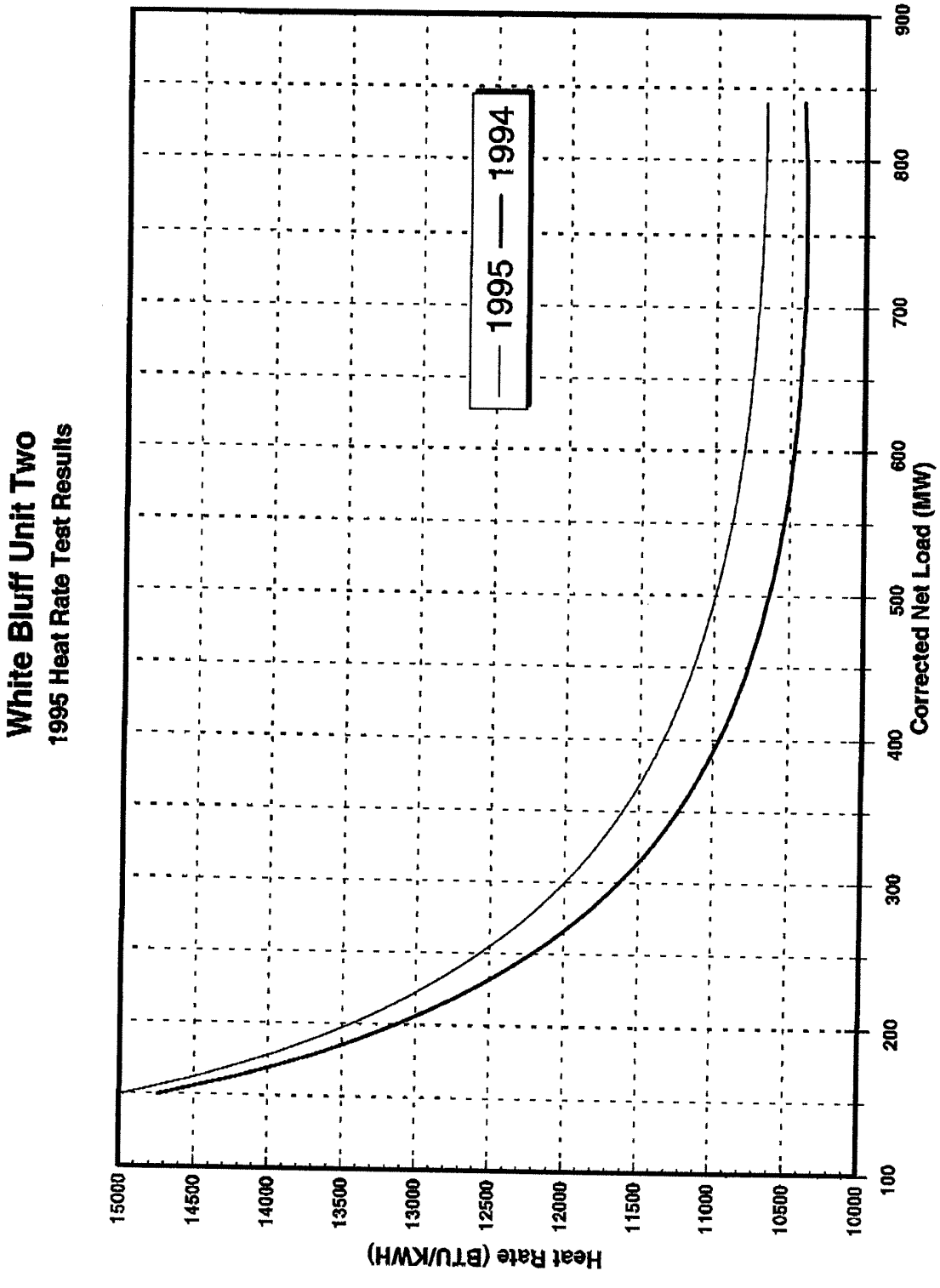

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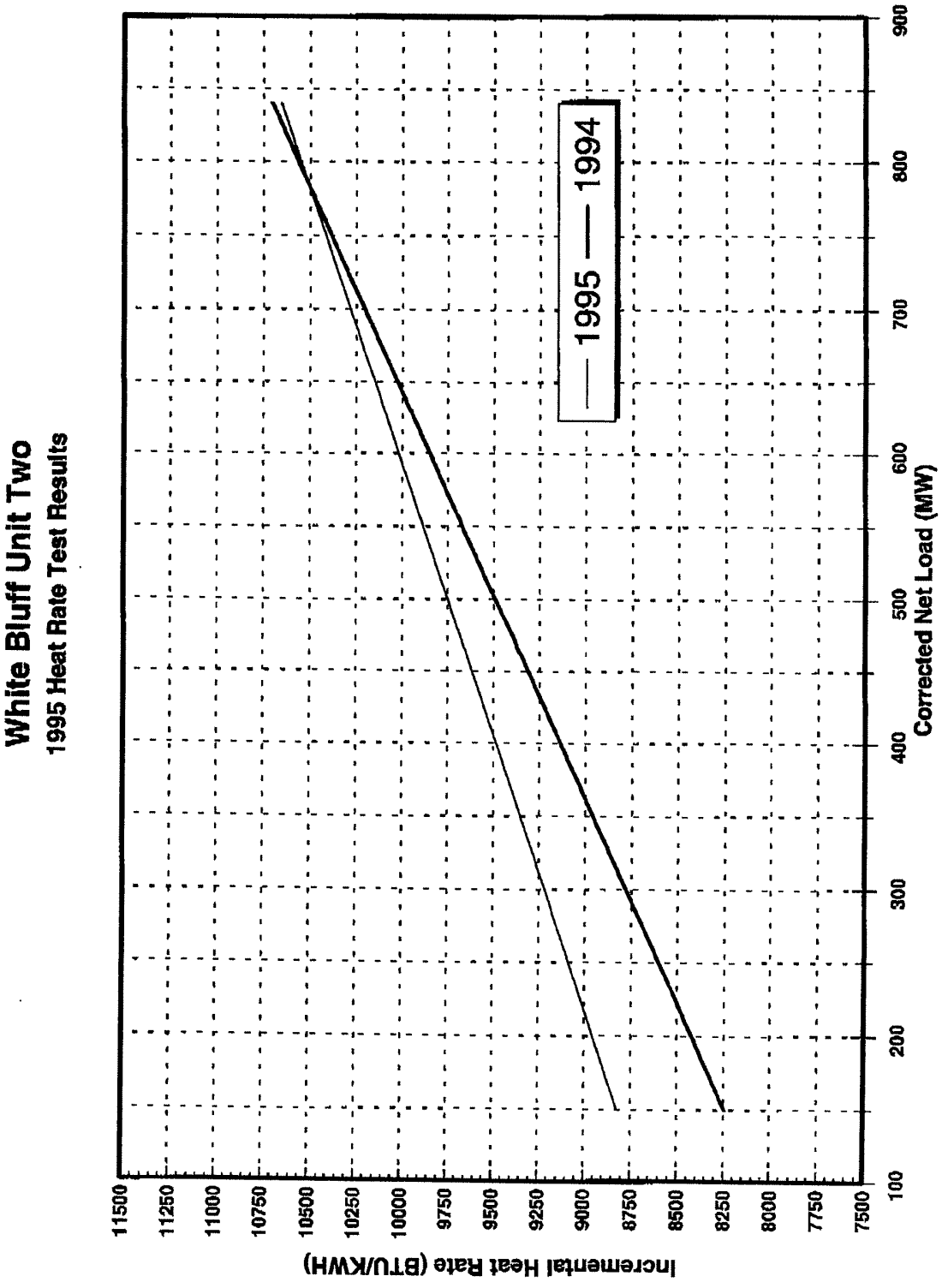
07/19/95



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Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

White Bluff Plant - Unit Two
Heat Rate Test Inputs
1995

Test Load	160	160	240	240	315	315	395	395	470	470	550	550	630	630	700	700
Test Date	6/26/95	6/26/95	6/27/95	6/27/95	6/28/95	6/28/95	6/26/95	6/26/95	6/27/95	6/27/95	6/29/95	6/29/95	6/28/95	6/28/95	6/29/95	6/29/95
Start Time	400	500	400	500	900	1000	900	1000	900	1000	1000	1100	1400	1500	1500	1600
End Time	500	600	500	600	1000	1100	1000	1100	1000	1100	1100	1200	1500	1600	1600	1700
Data File Name	2160a	2160b	2240a	2240b	2315a	2315b	2395a	2395b	2470a	2470b	2550a	2550b	2630a	2630b	2FULLa	2FULLb
Gross Generation (MW)	188	191	268	269	345	343	419	416	503	500	581	582	659	665	735	732
Aux Usage (MW)	23.1	22.5	23.5	23.5	23.7	23.7	25	25.2	26.4	26.4	28.5	28.4	29.9	30	32.3	32.1
Back Pressure (InHg)	1.600	1.600	1.750	1.750	2.240	2.290	2.430	2.520	2.720	2.780	3.600	3.620	3.800	3.910	4.000	3.980
Hot Water Temp (DEGF)	89.64	89.10	93.95	94.28	102.21	103.01	104.45	105.61	106.99	108.50	117.11	117.40	118.88	119.80	119.89	119.88
Cold Water Temp (DEGF)	81.98	81.33	83.82	84.08	89.38	90.16	89.57	90.69	89.47	90.87	96.81	97.11	95.94	96.73	94.61	94.71
Wet Bulb Temperature (DEGF)	64.10	62.80	62.40	61.80	70.50	71.80	66.70	67.00	66.50	67.30	77.50	78.40	75.10	75.40	72.50	74.10
Dry Bulb Temperature (DEGF)	68.00	66.10	68.50	66.00	78.50	81.00	77.30	81.00	77.60	81.70	91.00	93.80	87.30	87.70	76.50	78.40
Coal Flow (PPH)	266500	265900	352900	351400	427600	432700	515300	514700	603600	608900	694700	691700	787900	786200	858200	857000
Coal Heating Value (BTU/#)	8745.0	8649.0	8628.0	8585.0	8714.0	8619.0	8537.0	8551.0	8588.0	8579.0	8604.0	8604.0	8571.0	8622.0	8689.0	8781.0
Oil Flow (BBL/HR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oil Heating Value (BTU/BBL)	5748106	5748106	5748106	5748106	5748106	5748106	5748106	5748106	5748106	5748106	5748106	5748106	5748106	5748106	5748106	5748106

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	I	X	Y
Data Input Index:	1	157.9900	2330.5000
Data Input Index:	2	160.6000	2299.8000
Data Input Index:	3	235.2000	3044.8000
Data Input Index:	4	236.1900	3016.8000
Data Input Index:	5	315.1100	3729.4000
Data Input Index:	6	316.6100	3726.1000
Data Input Index:	7	382.0200	4401.2000
Data Input Index:	8	385.7700	4399.1000
Data Input Index:	9	464.1100	5223.8000
Data Input Index:	10	467.8000	5183.7000
Data Input Index:	11	552.5000	5977.2000
Data Input Index:	12	553.6000	5951.4000
Data Input Index:	13	626.2300	6753.1000
Data Input Index:	14	631.8600	6778.6000
Data Input Index:	15	695.7500	7525.3000
Data Input Index:	16	697.6000	7456.9000

Curve Fit to the Power of 2.

Results:

X^2 = 1.32874423471649E-0003
X^1 = 8.42371123335924E+0000
X^0 = 9.53025351923540E+0002

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2160a

THE AVERAGE GROSS GENERATION IS	188.00	MWe
THE AVERAGE AUXILIARY USAGE IS	23.10	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	1.60	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	89.64	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	81.98	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	64.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	68.00	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	80.73	PCT
THE AVERAGE COAL FLOW IS	266500.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8745.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	7.66	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	84.53	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.45	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	90.91	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.09	IN-HG
THE TURBINE THROTTLE FLOW IS	1194654.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-16.74	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-13.44	%

BPCHG = 3.97
KWCHG = -3.82

THE BACKPRESSURE CORRECTION FACTOR IS	1.038167	%
THE CORRECTED GROSS GENERATION IS	181.09	MWe
THE CORRECTED NET GENERATION IS	157.99	MWe
THE UNCORRECTED NET HEAT RATE IS	14133.1	BTU/NKW
THE CORRECTED NET HEAT RATE IS	14751.4	BTU/NKW
THE TOTAL HEAT INPUT IS	2330.5	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2160b

THE AVERAGE GROSS GENERATION IS	191.00	MWe
THE AVERAGE AUXILIARY USAGE IS	22.50	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	1.60	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	89.10	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	81.33	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	62.80	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	66.10	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	82.98	PCT
THE AVERAGE COAL FLOW IS	265900.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8649.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	7.77	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	83.35	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.37	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	91.35	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.15	IN-HG
THE TURBINE THROTTLE FLOW IS	1214620.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-16.63	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-12.87	%

BPCHG = 4.51
KWCHG = -4.31

THE BACKPRESSURE CORRECTION FACTOR IS	1.043140	%
THE CORRECTED GROSS GENERATION IS	183.10	MWe
THE CORRECTED NET GENERATION IS	160.60	MWe
THE UNCORRECTED NET HEAT RATE IS	13648.5	BTU/NKW
THE CORRECTED NET HEAT RATE IS	14319.8	BTU/NKW
THE TOTAL HEAT INPUT IS	2299.8	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2240a

THE AVERAGE GROSS GENERATION IS	268.00	MWe
THE AVERAGE AUXILIARY USAGE IS	23.50	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	1.75	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	93.71	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	83.59	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	62.40	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	68.50	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	71.28	PCT
THE AVERAGE COAL FLOW IS	352900.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8628.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	10.13	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	83.70	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.10	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	93.99	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.38	IN-HG
THE TURBINE THROTTLE FLOW IS	1734101.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-13.19	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-9.95	%

BPCHG = 3.73
KWCHG = -3.60

THE BACKPRESSURE CORRECTION FACTOR IS	1.035961	%
THE CORRECTED GROSS GENERATION IS	258.70	MWe
THE CORRECTED NET GENERATION IS	235.20	MWe
THE UNCORRECTED NET HEAT RATE IS	12453.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS	12945.8	BTU/NKW
THE TOTAL HEAT INPUT IS	3044.8	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2240b

THE AVERAGE GROSS GENERATION IS	269.00	MWe
THE AVERAGE AUXILIARY USAGE IS	23.50	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	1.75	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	93.71	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	83.52	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	61.80	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	66.00	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	78.81	PCT
THE AVERAGE COAL FLOW IS	351400.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8585.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	10.20	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	83.28	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	93.69	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	93.93	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.38	IN-HG
THE TURBINE THROTTLE FLOW IS	1740225.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-13.16	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-9.93	%

BPCHG = 3.72
KWCHG = -3.59

THE BACKPRESSURE CORRECTION FACTOR IS	1.035860	%
THE CORRECTED GROSS GENERATION IS	259.69	MWe
THE CORRECTED NET GENERATION IS	236.19	MWe
THE UNCORRECTED NET HEAT RATE IS	12288.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS	12772.8	BTU/NKW
THE TOTAL HEAT INPUT IS	3016.8	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2315a

THE AVERAGE GROSS GENERATION IS	345.00	MWe
THE AVERAGE AUXILIARY USAGE IS	23.70	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.24	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	101.92	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	89.09	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	70.50	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	78.50	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	67.96	PCT
THE AVERAGE COAL FLOW IS	427600.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8714.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	12.83	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	90.05	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.49	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	93.53	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.54	IN-HG
THE TURBINE THROTTLE FLOW IS	2247149.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-9.22	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-7.95	%

BPCHG = 1.40
KWCHG = -1.38

THE BACKPRESSURE CORRECTION FACTOR IS	1.013773	%
THE CORRECTED GROSS GENERATION IS	340.31	MWe
THE CORRECTED NET GENERATION IS	316.61	MWe
THE UNCORRECTED NET HEAT RATE IS	11597.0	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11768.6	BTU/NKW
THE TOTAL HEAT INPUT IS	3726.1	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2315b

THE AVERAGE GROSS GENERATION IS	343.00	MWe
THE AVERAGE AUXILIARY USAGE IS	23.70	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.29	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	102.70	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	89.85	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	71.80	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	81.00	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	64.67	PCT
THE AVERAGE COAL FLOW IS	432700.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8619.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	12.85	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	90.83	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.72	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	93.73	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.56	IN-HG
THE TURBINE THROTTLE FLOW IS	2239667.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-9.03	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-7.89	%

BPCHG = 1.25
KWCHG = -1.24

THE BACKPRESSURE CORRECTION FACTOR IS	1.012356	%
THE CORRECTED GROSS GENERATION IS	338.81	MWe
THE CORRECTED NET GENERATION IS	315.11	MWe
THE UNCORRECTED NET HEAT RATE IS	11680.1	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11835.2	BTU/NKW
THE TOTAL HEAT INPUT IS	3729.4	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2395a

THE AVERAGE GROSS GENERATION IS	419.00	MWe
THE AVERAGE AUXILIARY USAGE IS	25.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.43	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	104.45	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	89.57	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	66.70	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	77.30	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	57.98	PCT
THE AVERAGE COAL FLOW IS	515300.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8537.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	14.88	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	88.12	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	95.28	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	96.73	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	2.97	IN-HG
THE TURBINE THROTTLE FLOW IS	2712103.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-7.30	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-5.41	%

BPCHG = 2.05
KWCHG = -2.00

THE BACKPRESSURE CORRECTION FACTOR IS	1.020040	%
THE CORRECTED GROSS GENERATION IS	410.77	MWe
THE CORRECTED NET GENERATION IS	385.77	MWe
THE UNCORRECTED NET HEAT RATE IS	11165.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11403.5	BTU/NKW
THE TOTAL HEAT INPUT IS	4399.1	MMBTU

ation

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2395b

THE AVERAGE GROSS GENERATION IS	416.00	MWe
THE AVERAGE AUXILIARY USAGE IS	25.20	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.52	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	105.61	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	90.69	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	67.00	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	81.00	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	48.40	PCT
THE AVERAGE COAL FLOW IS	514700.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8551.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	14.92	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	88.71	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	96.09	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	98.07	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.10	IN-HG
THE TURBINE THROTTLE FLOW IS	2701093.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-7.03	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-4.98	%

BPCHG = 2.20
KWCHG = -2.16

THE BACKPRESSURE CORRECTION FACTOR IS	1.021570	%
THE CORRECTED GROSS GENERATION IS	407.22	MWe
THE CORRECTED NET GENERATION IS	382.02	MWe
THE UNCORRECTED NET HEAT RATE IS	11262.0	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11521.0	BTU/NKW
THE TOTAL HEAT INPUT IS	4401.2	MMBTU

ation

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2470a

THE AVERAGE GROSS GENERATION IS	503.00	MWe
THE AVERAGE AUXILIARY USAGE IS	26.40	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.72	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	106.99	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	89.47	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	66.50	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	77.60	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	56.36	PCT
THE AVERAGE COAL FLOW IS	603600.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8588.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	17.52	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	88.46	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	95.53	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	96.54	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.31	IN-HG
THE TURBINE THROTTLE FLOW IS	3238989.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-5.42	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-3.71	%

BPCHG = 1.81
KWCHG = -1.78

THE BACKPRESSURE CORRECTION FACTOR IS	1.017815	%
THE CORRECTED GROSS GENERATION IS	494.20	MWe
THE CORRECTED NET GENERATION IS	467.80	MWe
THE UNCORRECTED NET HEAT RATE IS	10876.5	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11081.2	BTU/NKW
THE TOTAL HEAT INPUT IS	5183.7	MMBTU

ation

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2470b

THE AVERAGE GROSS GENERATION IS	500.00	MWe
THE AVERAGE AUXILIARY USAGE IS	26.40	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	2.78	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	108.50	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	90.87	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	67.30	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	81.70	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	47.50	PCT
THE AVERAGE COAL FLOW IS	608900.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8579.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	17.63	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	89.07	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	96.35	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	98.15	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.40	IN-HG
THE TURBINE THROTTLE FLOW IS	3226186.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-5.28	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-3.41	%

BPCHG = 1.97
KWCHG = -1.93

THE BACKPRESSURE CORRECTION FACTOR IS	1.019340	%
THE CORRECTED GROSS GENERATION IS	490.51	MWe
THE CORRECTED NET GENERATION IS	464.11	MWe
THE UNCORRECTED NET HEAT RATE IS	11029.9	BTU/NKW
THE CORRECTED NET HEAT RATE IS	11255.3	BTU/NKW
THE TOTAL HEAT INPUT IS	5223.8	MMBTU

ation

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2550a

THE AVERAGE GROSS GENERATION IS	581.00	MWe
THE AVERAGE AUXILIARY USAGE IS	28.50	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.60	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	117.11	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	96.81	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	77.50	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	91.00	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	54.57	PCT
THE AVERAGE COAL FLOW IS	694700.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8604.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	20.30	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	95.78	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	95.78	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	96.81	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.60	IN-HG
THE TURBINE THROTTLE FLOW IS	3820259.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-2.40	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-2.40	%

BPCHG = 0.00
KWCHG = 0.00

THE BACKPRESSURE CORRECTION FACTOR IS	1.000000	%
THE CORRECTED GROSS GENERATION IS	581.00	MWe
THE CORRECTED NET GENERATION IS	552.50	MWe
THE UNCORRECTED NET HEAT RATE IS	10818.5	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10818.5	BTU/NKW
THE TOTAL HEAT INPUT IS	5977.2	MMBTU

ation

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2550b

THE AVERAGE GROSS GENERATION IS	582.00	MWe
THE AVERAGE AUXILIARY USAGE IS	28.40	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.62	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	117.40	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	97.11	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	78.40	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	93.80	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	50.00	PCT
THE AVERAGE COAL FLOW IS	691700.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8604.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	20.29	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	96.07	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	96.07	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	97.11	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.62	IN-HG
THE TURBINE THROTTLE FLOW IS	3828762.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-2.34	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-2.34	%

BPCHG = 0.00
KWCHG = 0.00

THE BACKPRESSURE CORRECTION FACTOR IS	1.000000	%
THE CORRECTED GROSS GENERATION IS	582.00	MWe
THE CORRECTED NET GENERATION IS	553.60	MWe
THE UNCORRECTED NET HEAT RATE IS	10750.3	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10750.3	BTU/NKW
THE TOTAL HEAT INPUT IS	5951.4	MMBTU

ation

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2630a

THE AVERAGE GROSS GENERATION IS	659.00	MWe
THE AVERAGE AUXILIARY USAGE IS	29.90	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.80	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	118.88	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	95.94	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	75.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	87.30	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	57.20	PCT
THE AVERAGE COAL FLOW IS	787900.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8571.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	22.94	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	93.85	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	95.76	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	97.85	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	3.99	IN-HG
THE TURBINE THROTTLE FLOW IS	4339823.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-1.63	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-1.20	%

BPCHG = 0.44
KWCHG = -0.44

THE BACKPRESSURE CORRECTION FACTOR IS	1.004377	%
THE CORRECTED GROSS GENERATION IS	656.13	MWe
THE CORRECTED NET GENERATION IS	626.23	MWe
THE UNCORRECTED NET HEAT RATE IS	10734.5	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10783.8	BTU/NKW
THE TOTAL HEAT INPUT IS	6753.1	MMBTU

ation

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2630b

THE AVERAGE GROSS GENERATION IS	665.00	MWe
THE AVERAGE AUXILIARY USAGE IS	30.00	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.91	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	119.80	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	96.73	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	75.40	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	87.70	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	57.04	PCT
THE AVERAGE COAL FLOW IS	786200.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8622.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	23.07	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	93.87	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	95.78	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	98.64	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	4.11	IN-HG
THE TURBINE THROTTLE FLOW IS	4393357.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-1.37	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-0.90	%

BPCHG = 0.48
KWCHG = -0.47

THE BACKPRESSURE CORRECTION FACTOR IS	1.004742	%
THE CORRECTED GROSS GENERATION IS	661.86	MWe
THE CORRECTED NET GENERATION IS	631.86	MWe
THE UNCORRECTED NET HEAT RATE IS	10675.0	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10728.0	BTU/NKW
THE TOTAL HEAT INPUT IS	6778.6	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2fulla

THE AVERAGE GROSS GENERATION IS	735.00	MWe
THE AVERAGE AUXILIARY USAGE IS	32.30	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	4.00	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	119.89	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	94.61	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	72.50	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	76.50	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	82.61	PCT
THE AVERAGE COAL FLOW IS	858200.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8689.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	25.28	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	91.47	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.51	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	97.65	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	4.34	IN-HG
THE TURBINE THROTTLE FLOW IS	4886203.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-1.00	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-0.31	%

BPCHG = 0.70
KWCHG = -0.70

THE BACKPRESSURE CORRECTION FACTOR IS	1.006981	%
THE CORRECTED GROSS GENERATION IS	729.90	MWe
THE CORRECTED NET GENERATION IS	697.60	MWe
THE UNCORRECTED NET HEAT RATE IS	10611.8	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10689.3	BTU/NKW
THE TOTAL HEAT INPUT IS	7456.9	MMBTU

HEAT RATE CORRECTIONS
White Bluff Unit Two

MEASURED TEST INPUTS FROM FILE 2fullb

THE AVERAGE GROSS GENERATION IS	732.00	MWe
THE AVERAGE AUXILIARY USAGE IS	32.10	MWe
THE AVERAGE CONDENSER BACKPRESSURE IS	3.98	IN-HG
THE AVERAGE CIRCULATING WATER TEMPERATURE FROM THE CONDENSER IS	119.88	DEG F
THE AVERAGE CIRCULATING WATER TEMPERATURE TO THE CONDENSER IS	94.71	DEG F
THE AVERAGE AMBIENT WET BULB TEMPERATURE IS	74.10	DEG F
THE AVERAGE AMBIENT DRY BULB TEMPERATURE IS	78.40	DEG F
THE COMPUTED RELATIVE HUMIDITY IS	81.94	PCT
THE AVERAGE COAL FLOW IS	857000.00	LB/HR
THE AVERAGE COAL HIGH HEATING VALUE IS	8781.00	BTU/LB
THE AVERAGE OIL FLOW IS	0.00	BBL/HR
THE AVERAGE OIL HIGH HEATING VALUE IS	0.00	BTU/BBL

CALCULATED RESULTS

THE COOLING TOWER CIRCULATING WATER FLOW IS	341000	GPM
THE COOLING TOWER RANGE IS	25.17	DEG F
THE DESIGN COLD WATER TEMPERATURE IS	92.09	DEG F
THE DESIGN MAXIMUM COLD WATER TEMPERATURE IS	94.53	DEG F
THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	97.16	DEG F
THE SATURATION PRESSURE FOR THE AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE IS	4.25	IN-HG
THE TURBINE THROTTLE FLOW IS	4863299.00	LB/HR
THE HEAT RATE CORRECTION FACTOR FOR CONDENSER BACKPRESSURE IS	-1.05	%
THE HEAT RATE CORRECTION FACTOR FOR AVERAGE MAXIMUM CONDENSER COOLING WATER TEMPERATURE SATURATION PRESSURE IS	-0.48	%

BPCHG = 0.57
KWCHG = -0.57

THE BACKPRESSURE CORRECTION FACTOR IS	1.005696	%
THE CORRECTED GROSS GENERATION IS	727.85	MWe
THE CORRECTED NET GENERATION IS	695.75	MWe
THE UNCORRECTED NET HEAT RATE IS	10752.0	BTU/NKW
THE CORRECTED NET HEAT RATE IS	10816.1	BTU/NKW
THE TOTAL HEAT INPUT IS	7525.3	MMBTU

COAL HEAT RATE TEST DATA

Plant: White Bluff

Unit: 1

Data Needed For Calculations								
Date	7/30/96	7/30/96	8/1/96	8/1/96	8/2/96	8/2/96	8/2/96	8/2/96
File Name	1550A	1550B	1650A	1650B	1750A	1750B	1815A	1815B
Gross MW	582 578	574 571	684	687	784	785	841	835
Aux MW	28.4	28.5	34.2	34.2	37.7	37.2	39.6	39.8
Cond Back Press	4.19 (lpp)	4.14 (lpp)	3.39	3.45	3.92	3.97	4.46	4.42
Circ Water Out T	125.05	124.74	115.64	116.32	120.46	120.98	125.63	124.64
Circ Water In T	92.93	92.76	94.07	94.74	96.11	96.58	98.84	98.57
Wet Bulb T	73.34	73.20	70.06	72.30	73.23	74.23	77.03	76.97
Dry Bulb T	75.37	74.19	70.96	74.79	79.65	81.64	90.39	92.71
Coal Flow pph	685900	684300	792500	792900	904800	909000	974000	967100
Coal HHV Btu/lb	8370	8475	8569	8580	8590	8615	8688	8596
Oil Flow bph	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ
Oil HHV Btu/bbl								

578 571 Digital Gross

Outputs								
Corr Gross MW	572.12	571.22	676.78	681.53	779.45	781.26	839.89	834.60
Corr Net MW	543.72	542.72	642.58	647.33	741.75	744.06	800.29	794.20
Test Net Ht Rate	10445.7	10573.5	10450.8	10421.4	10414.4	10472.1	10559.2	10454.2
Corr Net Ht Rate	10558.8	10685.9	10568.2	10509.4	10478.2	10524.7	10573.8	10467.4
Heat In MMBtu	5741.0	5799.4	6790.9	6803.1	7772.2	7831.0	8462.1	8313.2
Test Net MW	553.6 549.6	545.5 548.5	649.8	652.8	746.3	747.8	801.4	795.2

COAL HEAT RATE TEST DATA

Plant: White Bluff

Unit: 1

Data Needed For Calculations								
Date	8/13/96	8/15/96	8/13/96	8/13/96				
File Name	1450a96b.	1450b96b.	1550a96b.	1550b96b.	dta			
Gross MW	477	478	584	585				
Aux MW	25.6	25.4	31.5	31.6				
Cond Back Press	2.64	2.66	2.88	2.96				
Circ Water Out T	107.8	108.00	110.18	111.11	(All w/ 2 pp operation)			
Circ Water In T	91.99	92.17	91.45	92.38				
Wet Bulb T	69.53	67.80	67.32	69.12				
Dry Bulb T	72.78	69.59	68.61	72.07				
Coal Flow pph	543300	548100	657300	662300				
Coal HHV Btu/lb	8692	8681	8598	8632				
Oil Flow bph								
Oil HHV Btu/bbl								

Outputs								
Corr Gross MW	470.73	470.22	575.56	577.94				
Corr Net MW	445.13	444.82	544.06	546.34				
Test Net Ht Rate	10461.6	10512.7	10228.9	10330.6				
Corr Net Ht Rate	10609.0	10696.5	10387.6	10464.2				
Heat In MMBtu	4722.4	4758.1	5651.5	5717.0				
Test Net MW	451.4	452.6	552.5	553.4				

COAL HEAT RATE TEST DATA

Plant: White Bluff

Unit: 1

Data Needed For Calculations								
Date	7/31/96		7/31/96	7/30/96	8/1/96	8/1/96	7/31/96	7/31/96
File Name	1160A	1160B	1250A	1250B	1350A	1350B	1450A	1450B
Gross MW	188		278	281	373	378	479	472
Aux MW	24		24.4	24.5	25.3	25.8	26.7	26.8
Cond Back Press	2.14 (1pp)		2.36 (1pp)	2.38 (1pp)	2.84 (1pp)	2.78 (1pp)	3.29 (1pp)	3.25 (1pp)
Circ Water Out T	102.94		105.97	106.19	112.41	111.71	116.88	116.38
Circ Water In T	88.58		88.05	88.13	89.89	89.29	89.06	88.78
Wet Bulb T	72.44		71.02	70.76	71.15	70.46	71.63	71.33
Dry Bulb T	72.90		72.79	72.32	72.29	71.39	72.09	72.47
Coal Flow pph	265700		355700	358700	452500	449600	566800	565400
Coal HHV Btu/lb	8536		8364	8384	8683	8591	8521	8519
Oil Flow bph	0		0	0	0	0	0	0
Oil HHV Btu/bbl								

Outputs								
Corr Gross MW	184.36		272.85	275.83	366.92	371.14	472.62	464.62
Corr Net MW	160.36		248.45	251.33	341.62	345.34	445.92	437.82
Test Net Ht Rate	13329.4		11731.4	11724.5	11300.1	10966.8	10678.1	10819.7
Corr Net Ht Rate	14143.0		11974.6	11965.7	11501.1	11184.8	10830.9	11001.4
Heat In MMBtu	2268.0		2975.1	3007.3	3929.1	3862.5	4829.7	4816.6
Test Net MW	164		253.6	256.5	347.7	352.2	452.3	445.2

EQ#	COEF A	COEF B	COEF C	R^2	R^2 C	EQUATION
1	0.5836D+03	0.9645D+01	0.0000D+00	0.9976	0.9974	Y=A+B*X
2	0.0000D+00	0.1064D+02	0.0000D+00	0.0000	0.0000	Y=B*X
3	0.4534D-03	-.4616D-06	0.0000D+00	0.9005	0.8934	Y=1/(A+B*X)
4	-.1337D+03	0.1045D+02	0.1206D+06	0.9992	0.9990	Y=A+B*X+C/X
5	0.8416D+04	-.1158D+07	0.0000D+00	0.7834	0.7680	Y=A+B/X
6	0.5205D-04	0.6534D-01	0.0000D+00	0.9825	0.9812	Y=X/(A*X+B)
7	0.1227D+05	-.4016D+07	0.3904D+09	0.9654	0.9601	Y=A+B/X+C/X*X
8	0.1040D+04	0.7287D+01	0.2435D-02	0.9995	0.9995	Y=A+B*X+C*X*X
9	0.1193D+02	-.1995D-02	0.0000D+00	0.0000	0.0000	Y=A*X+B*X*X
10	0.3227D+02	0.8259D+00	0.0000D+00	0.9925	0.9920	Y=A*X^B
11	0.1827D+04	0.1002D+01	0.0000D+00	0.9811	0.9798	Y=A*B^X
12	0.9757D+04	0.0000D+00	0.0000D+00	0.9056	0.8989	Y=B^(1/X)
13	0.2053D+04	0.2792D-03	0.0000D+00	0.9727	0.9708	Y=A*X^(B*X)
14	0.1158D+05	-.5616D+02	0.0000D+00	0.9305	0.9255	Y=A*X^(B/X)
15	0.1827D+04	0.1997D-02	0.0000D+00	0.9811	0.9798	Y=A*e^(B*X)
16	0.9757D+04	-.2600D+03	0.0000D+00	0.9056	0.8989	Y=A*e^(B/X)
17	-.1798D+05	0.3835D+04	0.0000D+00	0.9327	0.9279	Y=A+B*lnX
18	0.1435D-02	-.1990D-03	0.0000D+00	0.9893	0.9885	Y=1/(A+B*lnX)
19	0.1450D+03	0.1001D+01	0.5161D+00	0.9995	0.9994	Y=A*B^X*X^C
21	0.9925D+04	0.1139D+04	-.6559D+06	0.9987	0.9985	Y=A*e^((X-B)/2)
22	0.1299D+04	0.3148D+01	0.6692D+01	0.9995	0.9995	Y=A*e^((lnX-B)^2/C)
24	0.5858D+04	0.1296D+04	0.5161D+00	0.9995	0.9994	Y=A*(X/B)^C*e^(x/b)
25	0.8344D-09	-.7610D+03	0.1268D-03	0.9910	0.9896	Y=1/(A*(X+B)^2+C)

BASED ON THE VALUE OF RC( )--BEST FITTING CURVE WAS NUMBER 8

With retest of 450 & 550
(w) 2 circ. pg's.

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

EQ#	COEF A	COEF B	COEF C	R^2	R^2 C	EQUATION
1	0.6100D+03	0.9647D+01	0.0000D+00	0.9989	0.9988	Y=A+B*X
2	0.0000D+00	0.1069D+02	0.0000D+00	0.0000	0.0000	Y=B*X
3	0.4520D-03	-.4610D-06	0.0000D+00	0.8943	0.8868	Y=1/(A+B*X)
4	0.1043D+03	0.1021D+02	0.8513D+05	0.9996	0.9996	Y=A+B*X+C/X
5	0.8459D+04	-.1165D+07	0.0000D+00	0.7924	0.7776	Y=A+B/X
6	0.5047D-04	0.6556D-01	0.0000D+00	0.9838	0.9827	Y=X/(A*X+B)
7	0.1227D+05	-.3992D+07	0.3862D+09	0.9712	0.9668	Y=A+B/X+C/X*X
8	0.9104D+03	0.8098D+01	0.1599D-02	0.9997	0.9997	Y=A+B*X+C*X*X
9	0.1216D+02	-.2276D-02	0.0000D+00	0.0000	0.0000	Y=A*X+B*X*X
10	0.3201D+02	0.8281D+00	0.0000D+00	0.9943	0.9939	Y=A*X^B
11	0.1838D+04	0.1002D+01	0.0000D+00	0.9775	0.9759	Y=A*B^X
12	0.9837D+04	0.0000D+00	0.0000D+00	0.9108	0.9044	Y=B^(1/X)
13	0.2066D+04	0.2789D-03	0.0000D+00	0.9684	0.9662	Y=A*X^(B*X)
14	0.1168D+05	-.5641D+02	0.0000D+00	0.9352	0.9306	Y=A*X^(B/X)
15	0.1838D+04	0.1996D-02	0.0000D+00	0.9775	0.9759	Y=A*e^(B*X)
16	0.9837D+04	-.2612D+03	0.0000D+00	0.9108	0.9044	Y=A*e^(B/X)
17	-.1803D+05	0.3849D+04	0.0000D+00	0.9393	0.9350	Y=A+B*lnX
18	0.1436D-02	-.1993D-03	0.0000D+00	0.9873	0.9864	Y=1/(A+B*lnX)
19	0.1158D+03	0.1001D+01	0.5630D+00	0.9993	0.9992	Y=A*B^X*X^C
21	0.9437D+04	0.1076D+04	-.5924D+06	0.9990	0.9989	Y=A*e^((X-B)/2)
22	0.1103D+04	0.2734D+01	0.7676D+01	0.9996	0.9995	Y=A*e^((lnX-B)^2/C)
24	0.7149D+04	0.1515D+04	0.5630D+00	0.9993	0.9992	Y=A*(X/B)^C*e^(x/b)
25	0.8674D-09	-.7503D+03	0.1266D-03	0.9916	0.9904	Y=1/(A*(X+B)^2+C)

BASED ON THE VALUE OF RC( )--BEST FITTING CURVE WAS NUMBER 8

WB #1 before re testing 450-550 loads

9608011000, 165300, 162700, 0, 157300, 165000, 45100, 165900, 0,U1HRLY TOTL= 430.65 TONS
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9608011400, 164100, 162200, 0, 151400, 164600, 160100, 165500, 0,U1HRLY TOTL= 483.95 TONS
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9608011600, 162700, 160100, 0, 157600, 162500, 158100, 163400, 0,U1HRLY TOTL= 482.2 TONS
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9608011800, 156700, 154100, 0, 166600, 156500, 152100, 157400, 0,U1HRLY TOTL= 471.7 TONS
9608011900, 156900, 154300, 0, 167500, 156800, 152300, 157500, 0,U1HRLY TOTL= 472.65 TONS
9608012000, 157500, 154900, 0, 166900, 157400, 152900, 158300, 0,U1HRLY TOTL= 473.95 TONS
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9671.0

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9607311200, 164400, 161900, 155300, 0, 164300, 159700, 164000, 0,U1HRLY TOTL= 484.8 TONS
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9607311900, 162800, 160300, 153700, 0, 162700, 158100, 163500, 0,U1HRLY TOTL= 480.55 TONS
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9608010300, 114900, 0, 106300, 0, 115200, 0, 116100, 0,U1HRLY TOTL= 226.25 TONS 45250
9608010400, 114100, 0, 105500, 0, 114600, 0, 115400, 0,U1HRLY TOTL= 224.8 TONS 44906.

9608010500, 139000, 26600, 63100, 88800, 139000, 0, 139900, 0,U1HRLY TOTL= 298.2 T
9608010600, 159800, 157100, 0, 158500, 159500, 0, 160400, 0,U1HRLY TOTL= 397.65 TO
9608010700, 159700, 157000, 0, 158600, 159400, 0, 160300, 0,U1HRLY TOTL= 397.5 TON
9608010800, 158100, 155600, 0, 161900, 158000, 0, 158900, 0,U1HRLY TOTL= 396.25 TO 7925
9608010900, 159200, 156500, 0, 158600, 158800, 0, 159800, 0,U1HRLY TOTL= 396.45 TO 7929

ENTERGY

Inter-Office Correspondence

TO:	**Jim Campbell**	**T-EP-16**
	Mike Bakewell	**T-EP-16**
	Lynn Sanders	**A-WB**
	William Phillips	**A-SOC**
	Henry Thompson	**A-TCBY-23G**
	Al Ralston	**A-SOC**
FROM:	**Roger Lawson**	**Phone 8-764-7329**
	Pat Klepper	**Phone 8-762-4529**
DATE:	**8/20/96**	
SUBJECT:	**1996 White Bluff Plant - Heat Rate Test Results**	

A series of heat rate tests were performed on both White Bluff Units starting July 30 and ending August 13. Co-owners were notified prior to the testing and representatives from Arkansas Electric Cooperative were present to observe the testing. Testing was performed in an unbiased manner.

Each unit was tested from 160 net MW through full load. Unit One's heat rate improved throughout the load range when compared to last year. Unit Two's heat rate improved at all loads below 750 net MW. Both high pressure heater trains on Unit Two were isolated on this and last years' tests. The hot and cold end air heater baskets on Unit Two were replaced last Fall.

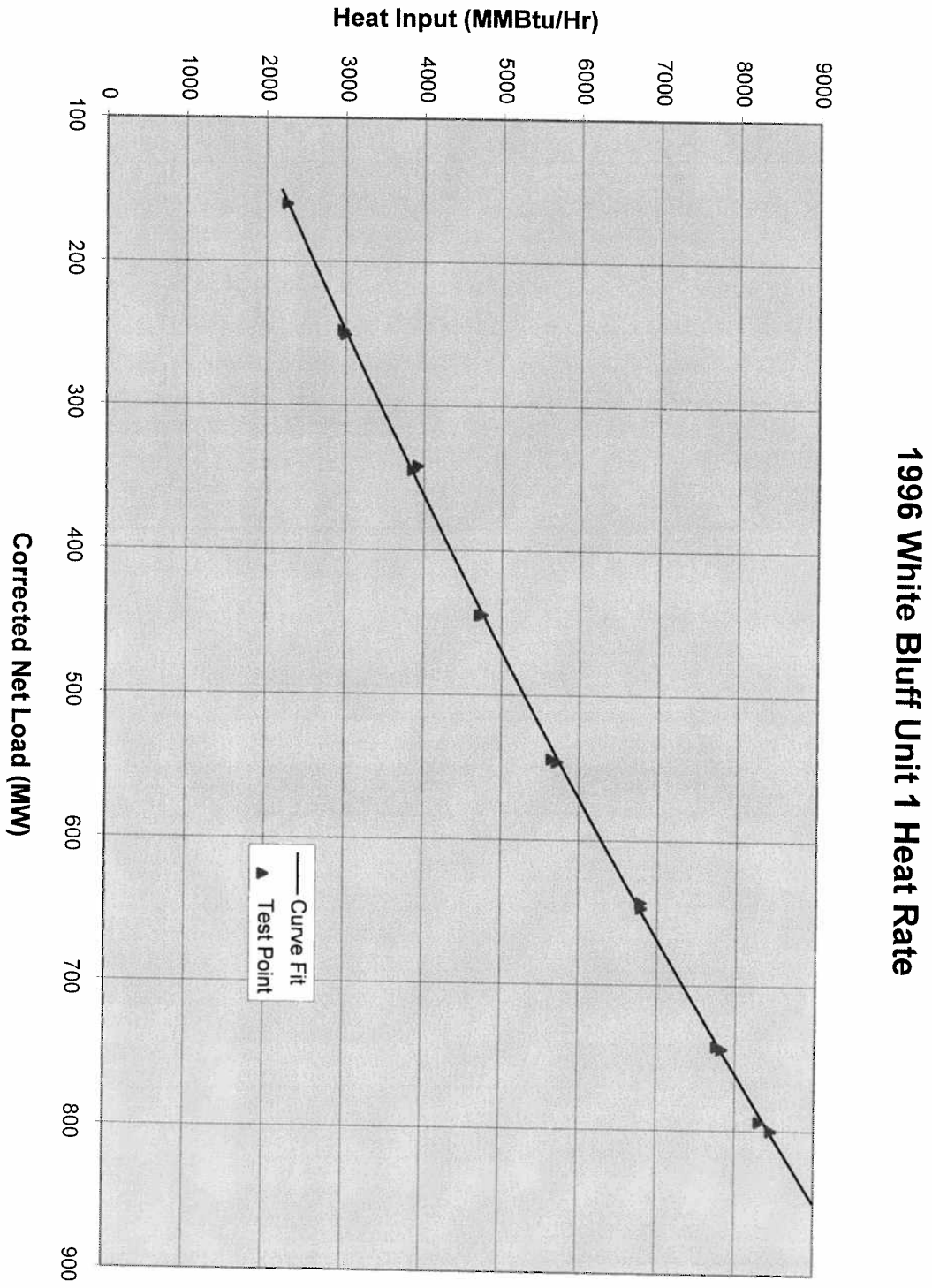
The coefficients for the 1996 heat rate curves are;

Term	Unit One	Unit Two
X^2	0.002435	0.003001
X^1	7.2870	6.9714
X^0	1040.431	1117.698

We recommend that these results be implemented for dispatch and co-owner billing.

The complete results are presented as charts on an the EXCEL spreadsheet "WBHR1996.XLS" which was sent via. cc:mail along with this memo.

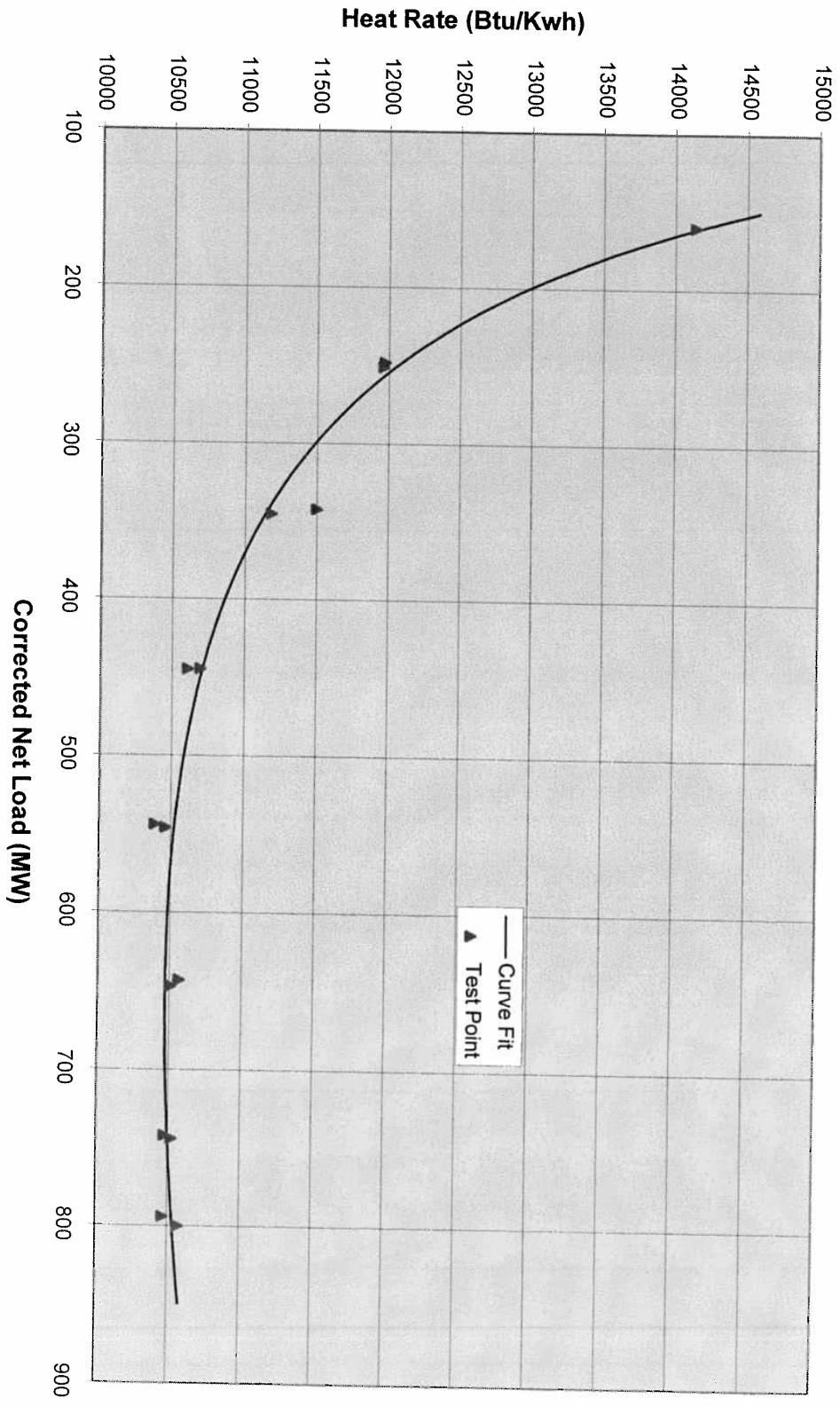
cc: George Eubanks A-WB-SC
David Harris A.E.C.C.



Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

WB_00006159

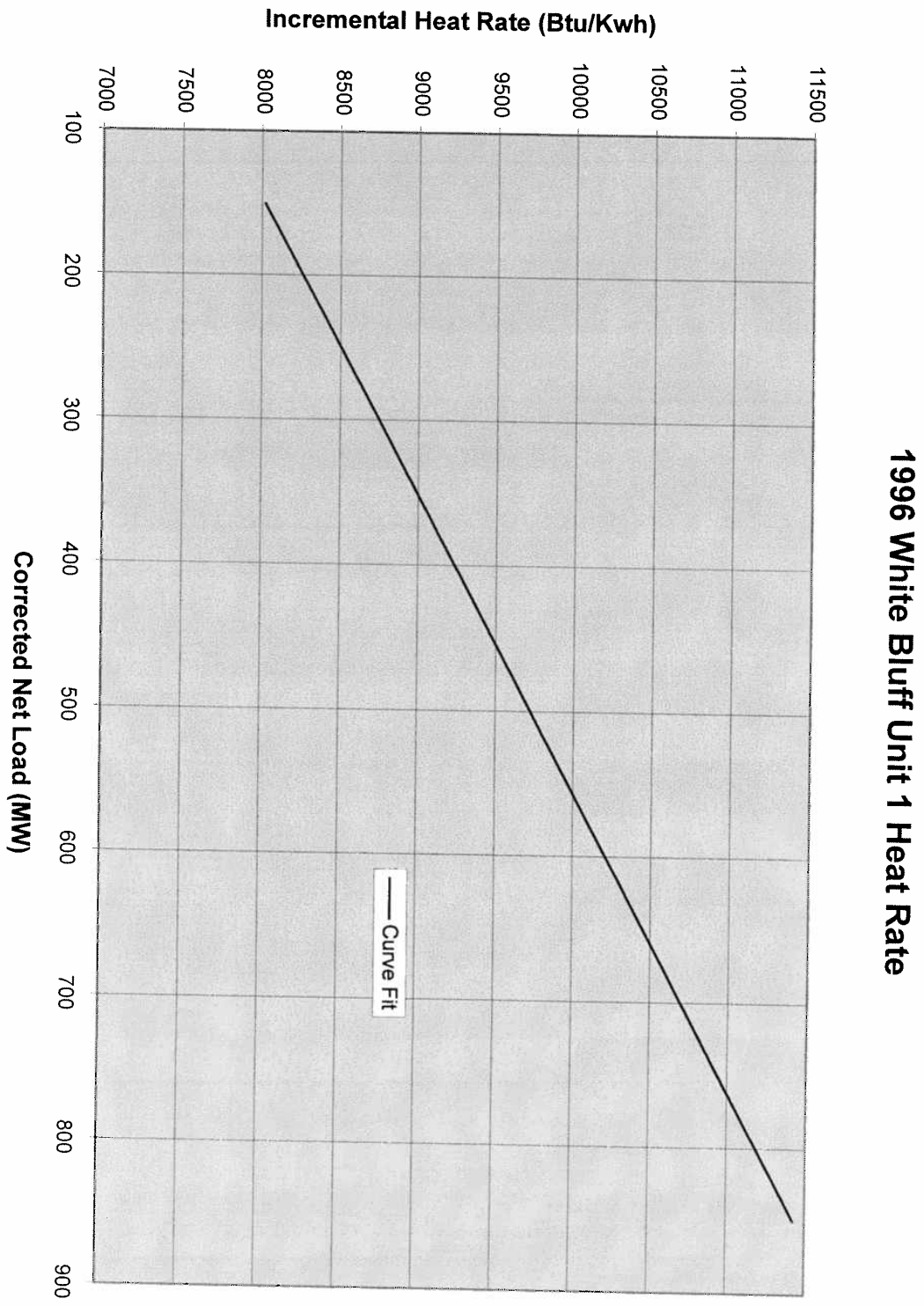


1996 White Bluff Unit 1 Heat Rate

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

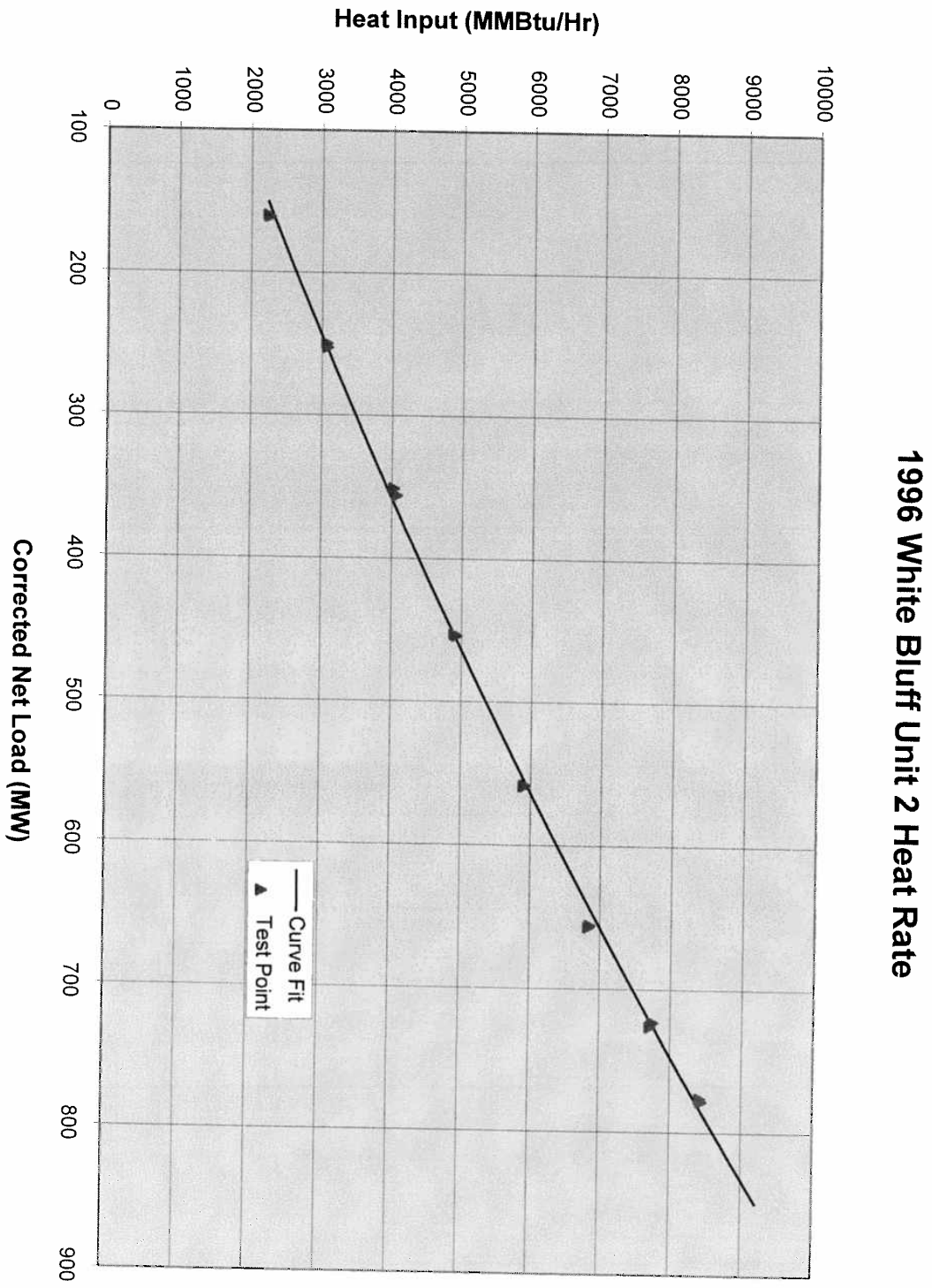
WB_00006160



1996 White Bluff Unit 1 Heat Rate

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

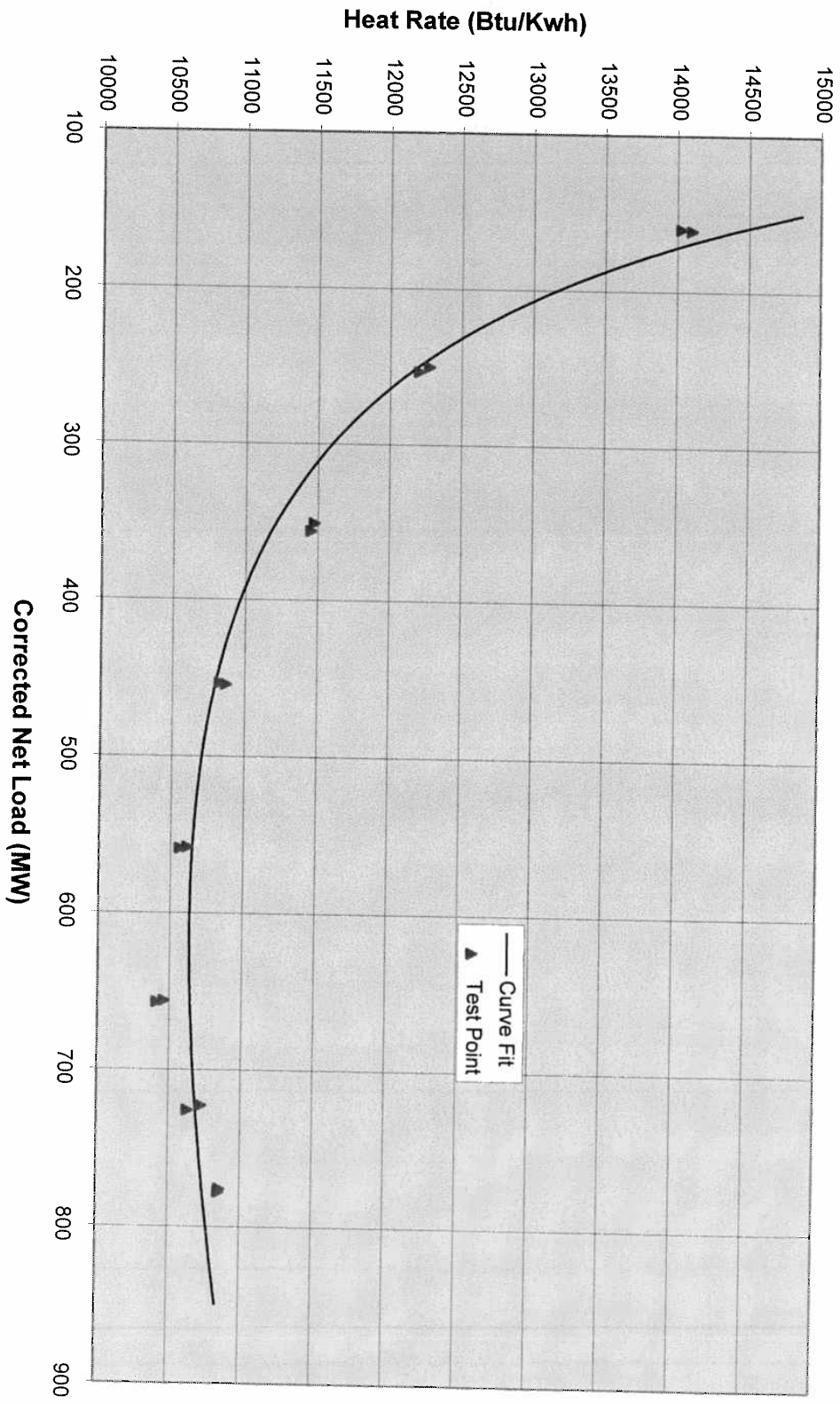


1996 White Bluff Unit 2 Heat Rate

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

WB_00006162

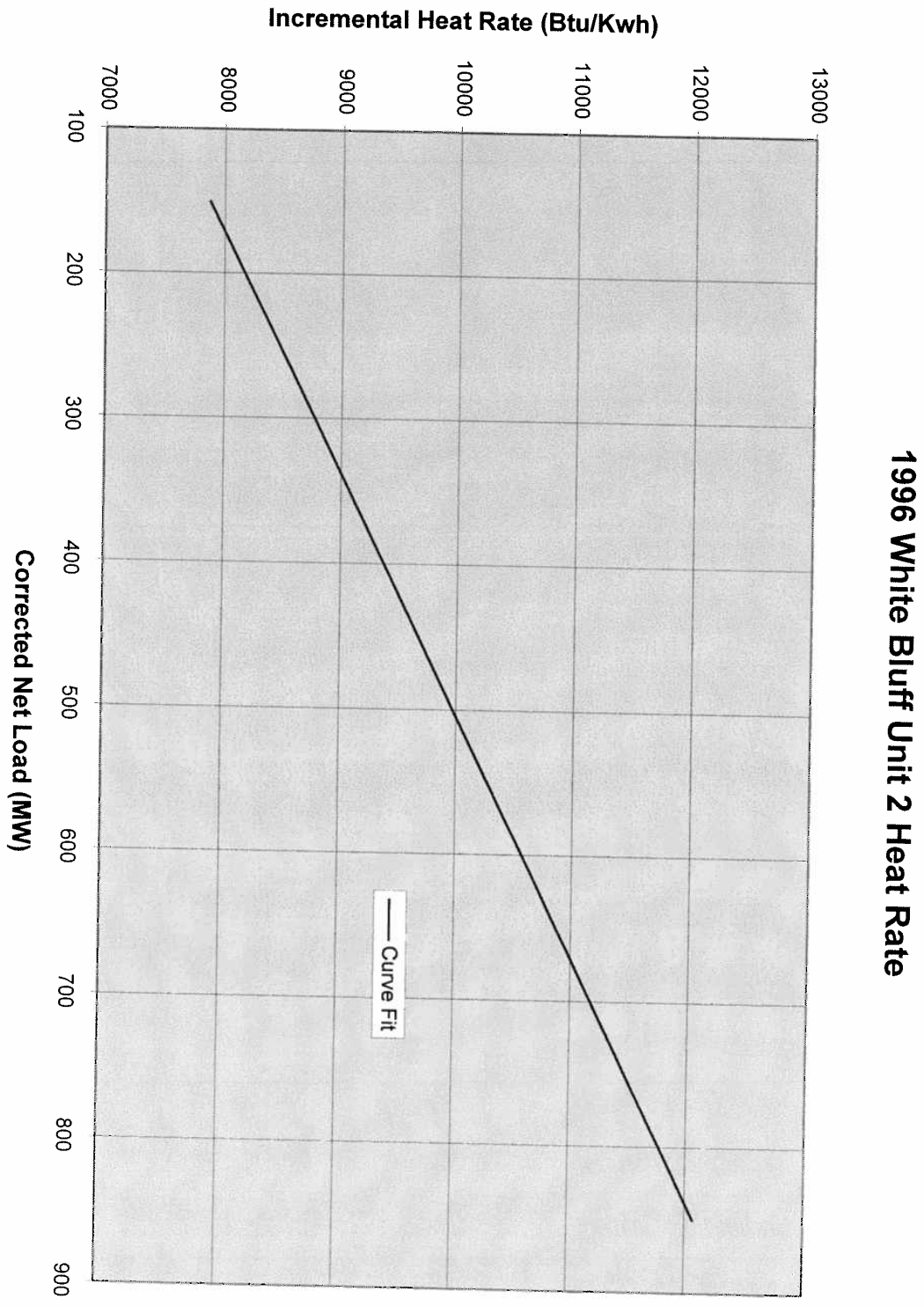


1996 White Bluff Unit 2 Heat Rate

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

WB_00006163



1996 White Bluff Unit 2 Heat Rate

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

Confidential Business Information

COAL HEAT RATE TEST DATA

Plant: White Bluff

Unit: 2

Data Needed For Calculations								
Date	8/5/96	8/5/96	8/6/96	8/6/96	8/7/96	8/7/96	8/5/96	8/5/96
File Name	2160A	2160B	2250A	2250B	2350A	2350B	2450A	2450B
Gross MW	186	187	280	278	384	380	481	482
Aux MW	23.5	23.9	24.6	24.7	25.3	25.0	26.3	26.1
Cond Back Press	1.81	1.80	2.14	2.11	2.44	2.40	2.20	2.29
Circ Water Out T	96.94	96.71	101.54	101.12	105.10	104.42	108.42	109.45
Circ Water In T	89.11	88.82	90.69	90.37	91.13	90.54	91.47	92.48
Wet Bulb T	74.39	74.16	73.70	73.66	73.72	72.60	74.00	75.33
Dry Bulb T	78.30	77.51	77.32	77.06	76.24	75.95	76.15	78.72
Coal Flow pph	256100	259400	356400	356100	485100	482100	576300	575100
Coal HHV Btu/lb	8780	8745	8051	8637	8398	8362	8504	8585
Oil Flow bph								
Oil HHV Btu/bbl								

Outputs								
Corr Gross MW	183.75	184.73	277.22	275.23	380.96	376.26	478.88	480.25
Corr Net MW	160.25	160.83	252.62	250.53	355.66	351.26	452.58	454.15
Test Net Ht Rate	13837.3	13908.4	12072.1	12142.3	11357.3	11355.8	10778.2	10829.6
Corr Net Ht Rate	14031.6	14104.4	12205.1	12276.6	11454.3	11476.8	10828.6	10871.4
Heat In MMBtu	2248.6	2268.5	3083.2	3075.6	4073.9	4031.3	4900.9	4937.2
Test Net MW	162.5	163.1	255.4	253.3	358.7	355.0	454.7	455.9

COAL HEAT RATE TEST DATA

Plant: White Bluff

Unit: 2

Data Needed For Calculations								
Date	8/6/96	8/6/96	8/7/96	8/7/96	8/8/96	8/8/96	8/8/96	8/8/96
File Name	2550A	2550B	2650A	2650B	2720A	2720B	2780A	2780B
Gross MW	588	588	690	688	760	757	812	815
Aux MW	28.3	28.2	30.3	30.2	33.9	33.8	36.2	36.2
Cond Back Press	2.45 Δ	2.54 Δ	2.61	2.66	3.42	3.42	3.62 Δ	3.49 Δ
Circ Water Out T	112.79	113.43	114.84	115.44	122.67	122.53	124.80	123.97
Circ Water In T	92.60	93.20	91.38	92.02	96.34	96.27	96.77	95.99
Wet Bulb T	74.25	75.66	72.35	73.45	77.62	78.33	77.90	77.35
Dry Bulb T	76.49	78.86	74.22	76.33	87.12	90.45	91.54	86.70
Coal Flow pph	702000	692700	806700	806800	895800	896200	969600	975000
Coal HHV Btu/lb	8434	8522	8483	8503	8667 (8620)	8743 (8657)	8689	8662
Oil Flow bph								
Oil HHV Btu/bbl								
	Large spread in A&B BP's							

Outputs								
Corr Gross MW	585.96	586.90	687.44	685.81	760.00	757.00	812.00	814.24
Corr Net MW	557.66	558.70	657.14	655.61	726.10	723.20	775.80	778.04
Test Net Ht Rate	10578.3	10545.2	10373.3	10429.0	10634.6	10727.9	10859.6	10844.2
Corr Net Ht Rate	10617.0	10565.9	10413.7	10463.9	10634.6	10727.9	10859.6	10854.8
Heat In MMBtu	5920.7	5903.2	6843.2	6860.2	7721.8	7758.4	8424.9	8445.5
Test Net MW	559.7	559.8	659.7	657.8	726.1	723.2	775.8	778.8

EQ#	COEF A	COEF B	COEF C	R^2	R^2 C	EQUATION
1	0.5766D+03	0.9818D+01	0.0000D+00	0.9962	0.9959	Y=A+B*X
2	0.0000D+00	0.1081D+02	0.0000D+00	0.0000	0.0000	Y=B*X
3	0.4548D-03	-.4722D-06	0.0000D+00	0.8980	0.8907	Y=1/(A+B*X)
4	-.1257D+03	0.1062D+02	0.1164D+06	0.9976	0.9972	Y=A+B*X+C/X
5	0.8485D+04	-.1161D+07	0.0000D+00	0.7949	0.7802	Y=A+B/X
6	0.4865D-04	0.6556D-01	0.0000D+00	0.9883	0.9875	Y=X/(A*X+B)
7	0.1227D+05	-.3967D+07	0.3822D+09	0.9629	0.9572	Y=A+B/X+C/X*X
8	0.1118D+04	0.6971D+01	0.3001D-02	0.9988	0.9986	Y=A+B*X+C*X*X
9	0.1207D+02	-.1980D-02	0.0000D+00	0.0000	0.0000	Y=A*X+B*X*X
10	0.3185D+02	0.8302D+00	0.0000D+00	0.9940	0.9936	Y=A*X^B
11	0.1821D+04	0.1002D+01	0.0000D+00	0.9806	0.9792	Y=A*B^X
12	0.9904D+04	0.0000D+00	0.0000D+00	0.9166	0.9107	Y=B^(1/X)
13	0.2048D+04	0.2856D-03	0.0000D+00	0.9725	0.9706	Y=A*X^(B*X)
14	0.1175D+05	-.5629D+02	0.0000D+00	0.9392	0.9348	Y=A*X^(B/X)
15	0.1821D+04	0.2037D-02	0.0000D+00	0.9806	0.9792	Y=A*e^(B*X)
16	0.9904D+04	-.2606D+03	0.0000D+00	0.9166	0.9107	Y=A*e^(B/X)
17	-.1801D+05	0.3850D+04	0.0000D+00	0.9347	0.9301	Y=A+B*lnX
18	0.1441D-02	-.2004D-03	0.0000D+00	0.9867	0.9858	Y=1/(A+B*lnX)
19	0.1276D+03	0.1001D+01	0.5433D+00	0.9995	0.9995	Y=A*B^X*X^C
20	0.5319D+01	0.2380D+38	0.1087D+01	0.9988	0.9987	Y=A*B^(1/X)*X^C
21	0.9855D+04	0.1114D+04	-.6276D+06	0.9973	0.9968	Y=A*e^((X-B)/2)
22	0.1130D+04	0.2795D+01	0.7480D+01	0.9992	0.9991	Y=A*e^((lnX-B)^2/C)
24	0.6484D+04	0.1379D+04	0.5433D+00	0.9995	0.9995	Y=A*(X/B)^C*e^(x/b)
25	0.8953D-09	-.7380D+03	0.1286D-03	0.9876	0.9857	Y=1/(A*(X+B)^2+C)

BASED ON THE VALUE OF RC( )--BEST FITTING CURVE WAS NUMBER 19

WB#2

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

COAL HEAT RATE TEST DATA

Plant: WB

Unit: 1

Data Needed For Calculations								
Date	8-11-97	8-11-97	8-12-97	8-12-97	8-13-97	8-13-97	8-11-97	8-11-97
File Name .DAT	1160A97	1160B97	1250A97	1250B97	1350A97	1350B97	1450A97	1450B97
Gross MW	186	182	279	278	381	382	477	487
Aux MW	22.3	22.2	20.5	20.5	25.3	25.5	25.0	28.3
Cond Back Press	2.13	2.09	2.44	2.44	2.69	2.67	3.59	2.99
Circ Water Out T	103.45	101.04	105.95	106.59	110.28	109.99	117.79	110.18
Circ Water In T	89.54	87.06	87.38	88.81	96.83	96.51	90.50	92.19
Wet Bulb T	72.64	74.30	74.70	74.51	76.59	76.35	75.19	76.65
Dry Bulb T	73.87	75.20	76.80	77.14	79.81	79.86	77.32	81.38
Coal Flow pph	251375	249337	347700	347700	455600	452900	553800	553300
Coal HHV Btu/lb	8725	8792	9024	8848	8852	8727	8860	8711
Oil Flow bph								
Oil HHV Btu/bbl								

1 circ H_2O Pp

2 circ H_2O Pp

Outputs								
Corr Gross MW	189.93	179.50	276.79	275.77	380.52	380.33	473.82	486.45
Corr Net MW	160.63	157.30	256.29	255.27	355.22	354.83	448.82	458.15
Test Net Ht Rate	13398	13715	12138	11947	11338	11087	10856	10508
Corr Net Ht Rate	13654	13936	12243	12052	11353	11139	10933	10520
Heat In MMBtu	2193.247	2192.171	3137.645	3076.450	4032.971	3952.458	4906.668	4849.796
Test Net MW	163.7	159.8	256.2	255.1	353.4	354.1	452.0	458.7

Ht. In = 1040.565 + 7.298 (NMW) + 4.44 2202 (NMW)^2 (W/o 450A)

COAL HEAT RATE TEST DATA

Plant: WB 1

Unit: 1

Data Needed For Calculations								
Date	8-12-97	8-12-97	8-13-97	8-13-97	8-14-97	8-14-97	8-14-97	8-14-97
File Name .DAT	1550A97	1550B97	1650A97	1650B97	1750A97	1750B97	1FULLA97	1FULLB97
Gross MW	585	585	683	688	785	782	870	869
Aux MW	30.6	30.8	33.5	33.1	36.2	37.0	40.1	40.7
Cond Back Press	3.24	3.37	3.96	3.96	4.76	4.56	4.75	4.88
Circ Water Out T	112.76	113.86	121.64	121.70	124.92	123.56	124.16	125.88
Circ Water In T	93.51	95.62	100.33	100.27	101.27	100.81	94.75	97.02
Wet Bulb T	73.17	76.29	76.16	76.69	79.73	79.63	77.16	78.47
Dry Bulb T	77.46	78.75	79.87	81.34	93.28	97.78	84.88	87.07
Coal Flow pph	648000	653300	772600	778100	876800	875000	986300	982500
Coal HHV Btu/lb	8720	8761	8660	8591	8880	8803	8772	8743
Oil Flow bph								
Oil HHV Btu/bbl								

Outputs								
Corr Gross MW	582.21	583.06	680.80	687.20	787.25	784.17	868.91	869
Corr Net MW	551.61	552.26	647.30	654.10	751.05	747.17	828.81	828.3
Test Net Ht Rate	10192	10328	10301	10207	10398	10375	10425	10371
Corr Net Ht Rate	10241	10364	10336	10220	10367	10344	10439	10371
Heat In MMBtu	5650.590	5723.501	6690.716	6684.657	7785.984	7729.034	8651.824	8589.998
Test Net MW	554.4	554.2	649.5	654.9	748.8	745.0	829.9	828.3

Ht. In = 998.637 + 1.583(NMW) + 0.001903(NMW)^2 (w/ 450A)

ENTERGY

Inter-Office Correspondence

TO:	**Tom Schnatz**	**T-EP-17B**
	Mike Bakewell	**T-EP-17B**
	Lynn Sanders	**A-WB**
	George Eubanks	**A-WB-SC**
	Al Ralston	**T-PKWD-3F**
	Tony James	**T-PKWD-3F**
	Henry Thompson	**T-PKWD-3H**
FROM:	**Roger Lawson**	**Phone 8-764-7329**
	Pat Klepper	**Phone 8-762-4529**
DATE:	**8/28/97**	
SUBJECT:	**1997 White Bluff Plant - Heat Rate Test Results**	

A series of heat rate tests were performed on both White Bluff Units starting July 7 and ending August 14. Co-owners were notified prior to the testing and representatives from Arkansas Electric Cooperative were present to observe the testing. Testing was performed in an unbiased manner.

Each unit was tested from 160 net MW through full load. Unit One's heat rate improved throughout the load range when compared to last year. Unit Two's heat rate improved at all loads above 550 net MW. Last year both high pressure heater trains on Unit Two were isolated during the tests, this year they were not isolated.

This years test were performed with one circulating water pump operation at minimum load on both units. Unit 1 was also tested with one pump operation at 250 MW. The first hour test at 450 MW on Unit 1 was performed with one circ water pump operation and the second hour test with two pump operation. Operating the second pump increased the auxiliary usage by 3.3 MW, but this was more than offset by the 0.6 inch decrease in back pressure at the ambient conditions during the test. The resulting decrease in heat rate with both pumps operating was 400 Btu/Kwh. The difference is shown on the attached charts.

nformation

The heat input at each of the corrected test loads is shown in the following table.

Corrected Test Load (Net MW)		Heat Input (MMBTU/Hr)	
Unit 1	Unit 2	Unit 1	Unit 2
157.30	158.58	2192.171	2261.267
160.63		2193.247	
255.27	247.17	3076.450	3033.339
256.29	251.16	3137.645	3050.726
354.83	346.49	3952.458	3970.887
355.22	347.22	4032.971	4097.542
	450.00		4925.064
458.15	454.66	4819.796	4910.500
551.61	547.42	5650.560	5888.830
552.26	552.36	5723.561	5861.807
647.30	647.54	6690.716	6743.269
654.10	649.27	6684.657	6875.606
747.17	753.20	7729.034	7849.489
751.05	756.10	7785.984	7921.463
828.30	853.31	8589.998	8915.273
828.81	855.13	8651.824	8941.020

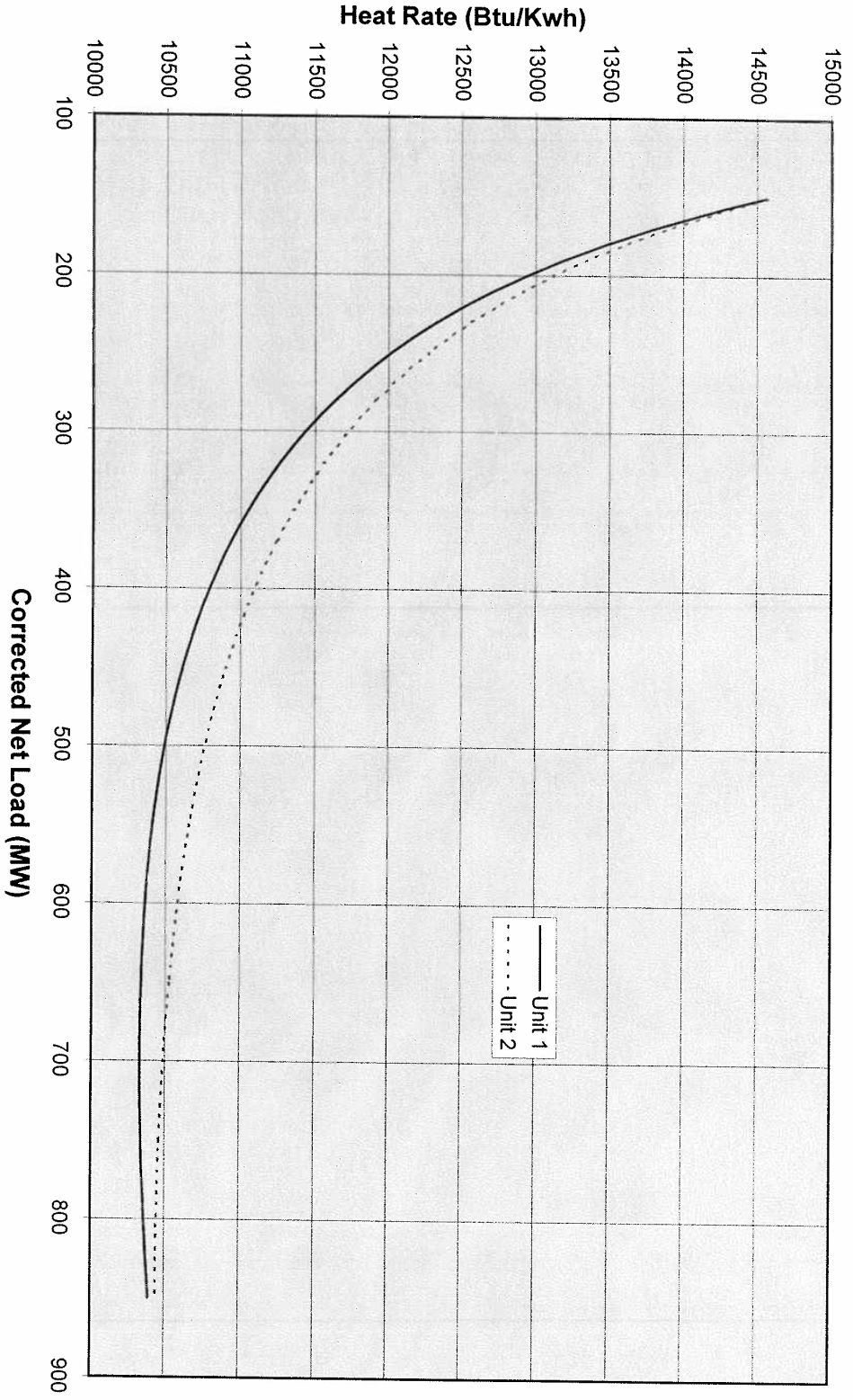
The coefficients for the 1997 heat rate curves are:

Term	Unit 1	Unit 2
X^2	0.002202	0.001217
X^1	7.298	8.3394
X^0	1040.565	907.130

We recommend that these results be implemented for economic dispatch and co-owner billing.

The complete results are presented as charts on an the EXCEL spreadsheet "WBHR1997.XLS" which is a cc:mail attachment along with this memo.

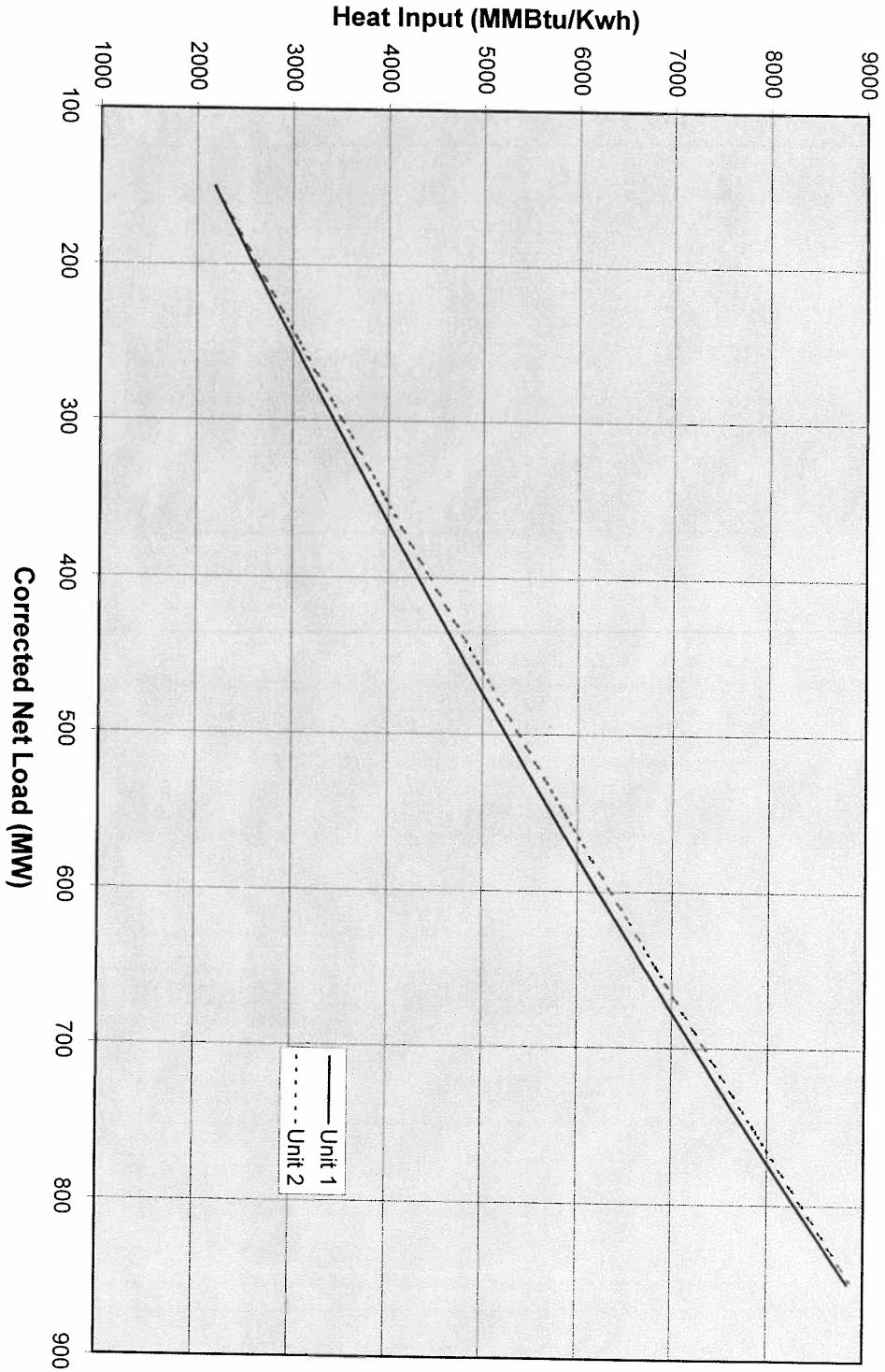
cc: David Harris A.E.C.C.



1997 White Bluff Heat Rate

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

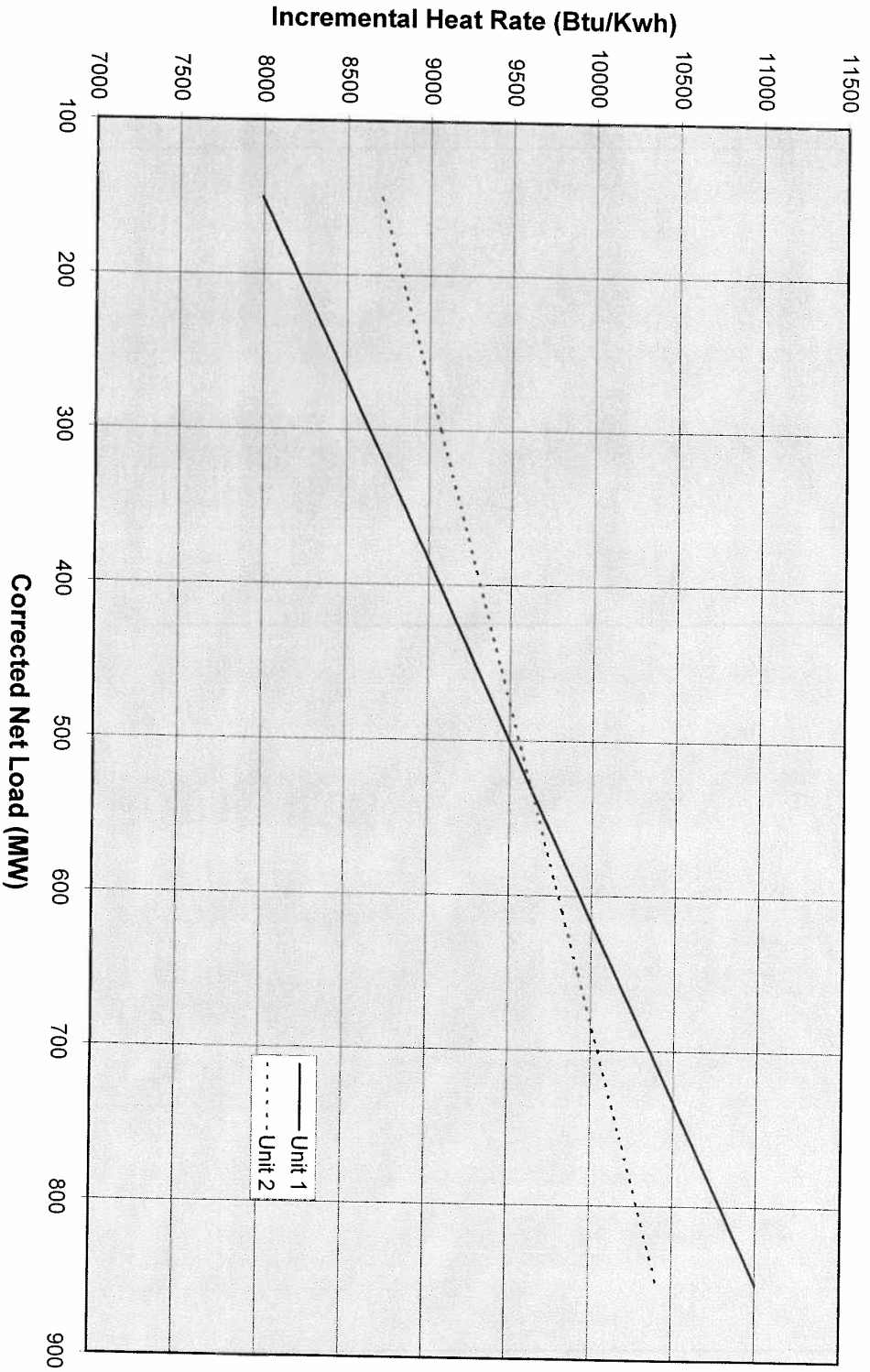
nformation



1997 White Bluff Heat Rate

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

nformation



1997 White Bluff Heat Rate

Claim Withdrawn. Contains No CBI. 06/29/2016_YD

nformation

COAL HEAT RATE TEST DATA

Plant: WB

Unit: 2

Data Needed For Calculations								
Date	7/7/97	7/7/97	7/8/97	7/8/97	7/8/97	7/8/97	7/9/97	
File Name .DAT	2350A97	2350B97	2450A97	2450B97	2550A97	2550B97	2160A97	
Gross MW	379	377	481	486	585	579	183	
Aux MW	24.5	24.3	26.2	25.8	28.4	28.1	20.1	
Cond Back Press	2.33 2.21	2.24 2.21	2.79 2.76	2.77 2.74	3.13 2.98	3.19 3.08	2.03 1.99	
Circ Water Out T	102.98	101.53	108.42	108.14	111.80	112.51	100.20	
Circ Water In T	89.68	88.39	92.25	92.03	92.69	93.46	86.25	
Wet Bulb T	68.22	68.68	71.58	71.30	72.53	73.80	71.31	
Dry Bulb T	72.74	71.79	75.04	73.94	74.67	78.10	72.87	
Coal Flow pph	490900	482900	588100	575000	679000	677500	257900	
Coal HHV Btu/lb	8347	8223	8366	8540	8633	8692	8768	
Oil Flow bph								
Oil HHV Btu/bbl								
MS T	999.1	997.93	1014.7	1016.8	1009.1	1010.5		
HRH T	922.8	932.17	975.7	977.3	990.1	994.2		

Outputs								
Corr Gross MW	371.72	370.79	476.2	480.46	580.76	575.52	178.68	
Corr Net MW	347.22	346.49	450.0	454.66	552.36	547.42	158.58	
Test Net Ht Rate	11559	11259	10829	10670	10532	10690	13881	
Corr Net Ht Rate	11801	11460	10945	10800	10612	10757	14259	
Heat In MMBtu	4097.542	3970.887	4925.064	4910.50	5861.807	5888.830	2261.2672	
Test Net MW	354.5	352.7	454.8	460.2	556.6	550.9	162.9	

COAL HEAT RATE TEST DATA

Plant: WB

Unit: 2

	122.??	122.08	1??.96	102.81	126.57	126.99	134.79	135.50
Data Needed For Calculations								
Date	7/9/97	7/9/97	7/10/97	7/10/97	7/10/97	7/10/97	7/10/97	7/10/97
File Name .DAT	2650A97	2650B97	2250A97	2250B97	2750A97	2750B97	2850A97	2850B97
Gross MW	685	682	276	280	791	792	890	891
Aux MW	30.1	29.9	24	24	33.1	33.0	37.8	38.0
Cond Back Press	3.67 2.37	3.65 2.40	2.11 2.07	2.10 2.07	4.13 2.86	4.17	5.14	5.23
Circ Water Out T	116.82	116.60	100.12	100.02	120.30	120.85	128.06	128.88
Circ Water In T	94.40	92.24	89.58	89.46	94.21	94.84	98.50	99.16
Wet Bulb T	71.91	72.98	70.97	71.18	72.52	74.46	78.84	79.84
Dry Bulb T	73.24	75.29	72.52	72.35	74.51	78.48	89.26	90.16
Coal Flow pph	791300	780200	341400	345300	897700	907800	1047500	1048800
Coal HHV Btu/lb	8689	8643	8885	8835	8744	8726	8511	8525
Oil Flow bph								
Oil HHV Btu/bbl								

Outputs								
Corr Gross MW	679.37	677.44	271.17	275.16	786.3	789.1	891.11	893.13
Corr Net MW	649.27	647.54	247.17	251.16	753.2	756.1	853.31	855.13
Test Net Ht Rate	10499	10341	12037	11917	10357	10437	10462	10482
Corr Net Ht Rate	10590	10414	12272	12147	10422	10477	10447	10456
Heat In MMBtu	6875.6057	6743.2686	3033.339	3050.7255	7849.4888	7921.4628	8915.2725	8941.02
Test Net MW	654.9	652.1	252	256	757.9	759.0	852.2	853.0

$H.\ In = 912.708 + 8.392(NMW) + .001138(NMW)^2$

w/o Test 350A & doubling the 160 & 350B tests in curve fit

$H.\ In = 907.13016 + 8.3394(NMW) + .0012167(NMW)^2$

COAL HEAT RATE TEST DATA

Std. Error = 47.739
Corr. Coeff. = 0.99977

Plant: White Bluff

Unit: 1

Heat In = 993.81896 + 7.3926156 (MW) + 0.0002342624 (MW)^2

Data Needed For Calculations								
Date	7-21-98	7-21-98	7-22-98	7-22-98	7-23-98	7-23-98	7-24-98	7-24-98
File Name	WB1450a.	WB1450b.	WB1525a.	WB1525b.	WB1600a.	WB1600b.	WB1680a.	WB1680b.
Gross MW	474	475	557	559	626	617 (618)	712	712
Aux MW	31.0	31.1	31.7	31.5	33.2	33.2	35.5	35.8
Cond Back Press	2.95	2.98	3.22	3.27	3.69	3.71	3.77	3.74
Circ Wtr Out T	110.46	110.37	112.91	113.17	116.44	114.94	118.21	118.09
Circ Water In T	96.04	95.86	94.75	95.17	96.35	96.33	94.63	94.26
Wet Bulb T	75.36	75.74	72.01	73.17	74.23	74.37	73.94	73.28
Dry Bulb T	78.15	78.78	73.99	75.73	75.52	76.12	75.00	74.02
Coal Flow pph	557700	557800	632800	636100	720200	714400	826000	824000
Coal HHV Btu/lb	8393	8486	8534	8449	8583	8590	8569	8563
Oil Flow bph								
Oil HHV Btu/bbl								
EMO	495	494	525	528	593	585	675	676

Outputs								
Corr Gross MW	471.25	473.2	551.34	554.13	622.06	613.03	708.29	707.31
Corr Net MW	440.25	442.1	519.64	522.63	588.86	579.83	672.79	671.51
Test Net Ht Rate	10566.1	10663.4	10280.4	10188.5	10427.6	10511.6	10462.7	10434.7
Corr Net Ht Rate	10632.0	10706.7	10392.3	10283.5	10497.4	10583.7	10520.3	10507.5
Heat In MMBtu	4680.77	4732.49	5400.31	5374.40	6181.47	6136.69	7077.99	7055.91
Test Net MW	443.0	443.9	525.3	527.5	592.8	583.8	676.5	676.2

614.03
580.83
1049.37
1056.5.5

584.8

COAL HEAT RATE TEST DATA

Plant: White Bluff

Unit: 1

Data Needed For Calculations								
Date	7-25-98	7-25-98	7-22-98	7-22-98	7-23-98	7-23-98	7-21-98	7-21-98
File Name	WB1MINa.dat	WB1MINb.dat	WB1225a.	WB1225b.	WB1300a.	WB1300b.	WB1375a.	WB1375b.
Gross MW	192	192	247	247	328	328	396	399
Aux MW	28.3	28.1	29.4	28.7	27.6	29.3	29.2	30.5
Cond Back Press	2.02	2.00	2.21	2.22	2.57	2.55	2.86	2.86
Circ Wtr Out T	96.71	96.17	101.26	101.29	104.91	104.60	108.32	108.29
Circ Water In T	90.26	89.52	89.56	90.22	90.79	70.81	95.29	95.13
Wet Bulb T	73.99	73.73	74.85	73.61	73.84	74.66	75.99	75.31
Dry Bulb T	76.51	75.92	79.21	77.52	75.42	76.94	81.23	79.75
Coal Flow pph	267000	266300	314000	314200	396100	398900	473600	475100
Coal HHV Btu/lb	8430	8419	8618	8558	8520	8520	8519	8519
Oil Flow bph								
Oil HHV Btu/bbl								
Elev	423	423	216	217	298	299	368	369

Outputs								
Corr Gross MW	189.24	189.21	244.82	244.19	324.84	326.12	394.35	396.31
Corr Net MW	160.94	161.11	215.42	215.49	297.24	296.82	365.15	365.81
Test Net Ht Rate	13776.6	13678.9	12435.9	12317.6	11234.3	11378.1	10999.5	10983.4
Corr Net Ht Rate	13985.6	13959	12561.9	12478.1	11353.7	11450.1	11049.2	11064.0
Heat In MMBtu	2250.81	2241.97	2706.05	2688.92	3374.77	3398.62	4034.59	4047.37
Test Net MW	163.7	163.9	217.6	218.3	300.4	298.7	366.8	368.5
					322.84			
					295.24			
					11309.6			
					11430.4			
					298.4			

COAL HEAT RATE TEST DATA

Plant: White Bluff

Unit: 1

Data Needed For Calculations								
Date	7-24-98	7-24-98	7-24-98	7-24-98				
File Name	WB1766a.	WB1766b.	WB1815a.	WB1815b.				
Gross MW	796	796	855	852				
Aux MW	38.7	38.6	39.0	39.5				
Cond Back Press	4.17	4.13	4.60	4.71				
Circ Wtr Out T	120.57	120.49	123.66	124.80				
Circ Water In T	95.52	95.17	94.71	94.94				
Wet Bulb T	72.56	73.61	77.73	79.13				
Dry Bulb T	73.12	74.64	83.48	86.95				
Coal Flow pph	933400	944800	1021200	1019900				
Coal HHV Btu/lb	8408	8415	8386	8354				
Oil Flow bph								
Oil HHV Btu/bbl								
FWD	757	757	815	813				

Outputs								
Corr Gross MW	791.22	792.22	855.0	853.02				
Corr Net MW	752.52	753.62	816.0	813.52				
Test Net Ht Rate	10363.2	10497.1	10500	10486.5				
Corr Net Ht Rate	10429.0	10549.8	10500	10473.3				
Heat In MMBtu	7848.02	7950.49	8567.97	8520.24				
Test Net MW	757.3	757.4	816.0	812.5				

ENTERGY

Inter-Office Correspondence

TO: **Etienne Senac**
James Marbury
Tom Schnatz
George Eubanks
Al Ralston
Tim Gautreau
Henry Thompson
David Harris - AECC

FROM: **Roger Lawson**

DATE: **October 13, 1998**

SUBJECT: **1998 White Bluff Heat Rate Test Results**

Heat rate tests were performed on both White Bluff Units during the months of July and August. Co-owners were notified prior to the testing and representatives from Arkansas Electric Cooperative Corporation were present to observe. Testing was performed as required by the Entergy Heat Rate Testing Procedure for Fossil Units.

Both units were tested from minimum to maximum loads. The Unit One heat rate is slightly improved below 350 MW and slightly worse above 350 MW compared to 1997. Unit Two is improved below 450 MW and worse above 450 MW compared to 1997.

The coefficients for the 1998 heat rate curves are:

Term	Unit 1	Unit 2
X^2	0.002343	0.001771
X^1	7.393	8.092
X^0	993.819	907.723

The measured heat input at each of the corrected test loads is shown in the following table.

Unit 1 Corrected Net Test Load (MW)	Unit 1 Heat Input (MMBtu/Hr)	Unit 2 Corrected Net Test Load (MW)	Unit 2 Heat Input (MMBtu/Hr)
160.94	2250.81	162.37	2235.64
161.11	2241.97	162.50	2276.15
215.42	2706.05	228.15	2853.21
215.49	2688.92	229.95	2838.88
296.82	3398.62	304.86	3516.07
297.24	3374.77	307.00	3617.44
365.15	4034.59	363.81	4121.70
365.81	4047.37	363.81	4121.70
440.25	4680.77	452.62	4969.72
442.10	4733.49	454.10	4946.59
519.64	5400.31	524.90	5564.15
522.63	5374.40	524.93	5571.39
579.83	6136.69	681.61	7261.24
588.86	6181.47	685.72	7327.80
671.51	7055.91	822.51	8721.82
672.79	7077.99	822.80	8801.52
752.52	7848.02		
753.62	7950.49		
813.52	8520.24		
816.00	8567.97		

The results have been reviewed and approved for implementation by James Marbury.

The complete test results are presented as charts in the EXCEL spreadsheet ***"WBHR1998.XLS"*** which is provided as an attachment to this memo.

cc: Pat Klepper

COAL HEAT RATE TEST DATA

Plant: W. H. Weston

Unit: 2

Data Needed For Calculations								
Date	7-7-98	7-7-98	7-8-98	7-8-98	7-9-98	7-9-98	7-9-98	7-9-98
File Name	2a4520a.	2a4726.	2a5059.	2a5256.	2a6580a.	2a6806.	2a7111a.	2a7311b.
Gross MW	472	477	551	550	710	712	858	855
Aux MW	24.9	25.0	26.1	25.8	30.3	30.3	35.2	35.4
Cond Back Press	3.22	3.29	3.59	3.60	4.42	4.46	5.34	5.36
Circ Water Out T	111.44	111.87	114.25	114.29	118.51	118.54	124.63	124.65
Circ Water In T	94.70	95.10	95.32	95.35	94.41	94.47	95.64	95.64
Wet Bulb T	78.12	79.22	78.12	79.22	80.09	81.32	77.78	77.25
Dry Bulb T	87.29	91.26	87.79	91.26	86.82	90.04	78.91	78.23
Coal Flow pph	552700	585700	629700	633400	846200	849000	1012600	1019500
Coal HHV Btu/lb	8492	8468	8831	8796	8551	8625	8692	→ 8555
Oil Flow bph								
Oil HHV Btu/bbl								
EMO							822	823

Outputs								
Corr Gross MW	479.2	477.62	551	550.73	711.91	716.02	858	857.91
Corr Net MW	454.1	452.62	524.9	524.02	681.61	685.72	822.8	822.51
Test Net Ht Rate	10895	10985	10660	10625	10653	10749	10697	10590
Corr Net Ht Rate	10895	10980	10660	10614	10653	10686	10697	10604
Heat In MMBtu	4946.37	4969.724	5594.151	5571.356	7261.242	7327.800	8801.519	8721.823
Test Net MW	454.1	452.9	524.9	524.2	679.7	681.7	822.8	819.6 → 823.6

COAL HEAT RATE TEST DATA

Plant: White Bluff

Unit: 2

Data Needed For Calculations								
Date	7-6-98	7-6-98	7-7-98	7-7-98	7-8-98	7-8-98	7-6-98	
File Name	2a1600a.dat	2a1600b.	2a225a.	2a325b.	2a300a.	2a300b.	2a375a.	
Gross MW	185	185	253	251	327	330	387	
Aux MW	22.5	22.6	22.8	22.6	22.7	23.0	23.7	
Cond Back Press	2.18	2.15	2.38	2.38	2.75	2.74	2.83	
Circ Water Out T	100.14	100.21	102.83	103.00	107.19	106.88	108.23	
Circ Water In T	92.07	92.19	92.84	92.96	94.69	94.22	94.19	
Wet Bulb T	77.34	77.0	77.28	77.46	78.58	78.12	79.02	
Dry Bulb T	85.38	84.18	82.09	82.32	87.00	85.52	89.45	
Coal Flow pph	265100	265800	331800	334100	407000	413800	479100	
Coal HHV Btu/lb	8586	8507	8536	8540	8639	8742	8603	
Oil Flow bph								
Oil HHV Btu/bbl								
EMO	162	161			302	308	364	

Outputs								
Corr Gross MW	185	184.97	252.75	250.75	327.56	330.0	387.51	
Corr Net MW	162.5	162.37	229.95	228.15	304.86	307.0	363.81	
Test Net Ht Rate	14069.1	13776	12332	12492	11555	11783	11345	
Corr Net Ht Rate	14069.1	13769	12316	12506	11522	11753	11329	
Heat In MMBtu	2276.449	2235.640	2838.581	2853.214	3516.073	3617.440	4121.697	
Test Net MW	162.5	162.4	230.2	228.1	304.3	307	363.3	

gwbasic.exe
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a = 1130.8766
b = 7.46415
c = 0.0023309

COAL HEAT RATE TEST DATA

Plant: WB

Unit: 2

Data Needed For Calculations								
Date	8/20/98	8/20/98	8/17	8/17	8/17	8/17	8/20	8/20
File Name	26160a.	26160b.	26225a.	26225b.	26300a.	26300b.	26375a.	26375b.
Gross MW	176	175	246	246	326	324	394	394
Aux MW	22.6	22.8	18.1	17.9	18.9	18.7	24.8	24.6
Cond Back Press	2.05	2.02	2.23	2.20	2.64	2.62	2.71	2.70
Circ Water Out T	98.74	98.21	101.27	100.84	106.43	106.18	105.49	105.31
Circ Water In T	90.75	90.36	84.96	84.52	85.81	85.73	91.04	90.90
Wet Bulb T	76.60	75.80	68.45	69.10	69.88	69.80	72.27	72.81
Dry Bulb T	79.48	78.35	70.37	71.80	70.88	70.73	74.41	75.97
Coal Flow pph	272200	271700	336000	335900	423600	421400	509300	512000
Coal HHV Btu/lb	8562	8476	8358	8473	8568	8500	8424	8644
Oil Flow bph			1 circ wtr pump	→	→	→		
Oil HHV Btu/bbl								

Outputs								
Corr Gross MW	175.70	173.58	239.08	239.71	319.64	317.69	389.13	389.91
Corr Net MW	153.10	150.78	220.98	221.81	300.74	298.99	364.33	365.31
Test Net Ht Rate	15193	15131	12323	12277	11818	11732	11621	11981
Corr Net Ht Rate	15223	15274	12708	12831	12068	11980	11776	12115
Heat In MMBtu	2330.58	2302.93	2808.29	2846.08	3629.40	3581.90	4290.34	4425.73
Test Net MW	153.4	152.2	227.9	228.1	307.1	305.3	369.2	369.4

COAL HEAT RATE TEST DATA

Plant: WB

Unit: 2

Data Needed For Calculations								
Date	5/18/98	5/18	5/18	5/18	5/29	5/29	5/19	5/19
File Name	26450a.	26450b.	26525a.	26525b.	26600a.	26606.	26680a.	26680b.
Gross MW	478	476	548	550	631	630	711	712
Aux MW	25.9	25.8	26.6	26.5	29.5	29.3	30.8	30.7
Cond Back Press	3.05	3.01	3.19	3.14	3.66	3.63	4.09	4.05
Circ Water Out T	108.72	108.38	109.56	108.91	113.46	113.09	116.50	116.17
Circ Water In T	91.99	91.75	90.92	90.36	92.42	92.11	92.62	92.27
Wet Bulb T	73.2	72.73	70.94	72.31	73.97	73.97	70.25	72.40
Dry Bulb T	76.73	76.10	72.42	74.71	75.09	75.66	71.24	74.18
Coal Flow pph	578100	576200	648200	646400	770300	773000	863300	867500
Coal HHV Btu/lb	8460	8400	8425	8476	8516	8117	8397	8541
Oil Flow bph								
Oil HHV Btu/bbl								

Outputs								
Corr Gross MW	473.56	471.65	541.65	544.73	627.12	626.12	702.64	705.98
Corr Net MW	447.66	445.85	515.05	518.23	597.62	596.82	671.84	675.28
Test Net Ht Rate	10818	10751	10419	10466	10906	10445	10657	10875
Corr Net Ht Rate	10925	10856	10547	10572	10977	10513	10790	10972
Heat In MMBtu	4890.73	4840.08	5432.44	5478.89	6559.87	6274.44	7249.13	7409.32
Test Net MW	452.1	450.2	521.4	523.5	601.5	600.7	680.2	681.3

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COAL HEAT RATE TEST DATA

Plant: WB

Unit: 2

Data Needed For Calculations								
Date	8/29	8/29	8/19	8/19				
File Name	26760a.	26760b.	26fulla.	26fullb.				
Gross MW	793	795	871	871				
Aux MW	33.7	34.1	36.7	37.0				
Cond Back Press	4.59	4.61	5.13	5.10				
Circ Water Out T	119.92	120.09	123.04	122.91				
Circ Water In T	93.52	93.54	93.56	93.43				
Wet Bulb T	73.41	75.20	73.5	72.34				
Dry Bulb T	75.16	78.29	77.14	74.59				
Coal Flow pph	970300	977900	1064000	1067100				
Coal HHV Btu/lb	8333	8198	8403	8364				
Oil Flow bph								
Oil HHV Btu/bbl								

Outputs								
Corr Gross MW	787.70	791.77	866.79	864.76				
Corr Net MW	754.00	757.67	830.09	827.76				
Test Net Ht Rate	10649	10536	10717	10702				
Corr Net Ht Rate	10723	10581	10771	10782				
Heat In MMBtu	8085.51	8016.82	8940.79	8925.22				
Test Net MW	759.3	760.9	834.3	834.0				

ENTERGY

June 2, 1993

Inter-Office Correspondence

TO: Mr. Art Gilreath

FROM: Dennis A. Wall

SUBJECT: 1993 Maximum Operating Ratings Tests: White Bluff Plant

The purpose of the subject tests was to determine the present full load ability of the White Bluff units when operating at a weather condition equal to the past five years' average maximum daily wet bulb temperature of 76 °F. The tests and related calculations have been completed, and the results are attached for your review. Both unit's tests were conducted in accordance with the relevant Entergy test procedure.

The Unit 1 test was conducted on May 12th. The test went normally and resulted in a full load capability of 801 MW, which is 14 MW less than its MDC rating. The limitation was due to "B" PA Fan air flow.

The Unit 2 test was conducted on May 13th. The test went normally and resulted in a full load capability of 833 MW, which is 11 MW less than its MDC rating. The limitation was due to "A" ID Fan suction pressure.

If you need any additional information, please contact me at extension 7021.

DAW/dw

Dennis A. Wall

cc: Mr. Mickey Cox
Mr. Max Halbert
Mr. Tom Odenthal
Mr. Ron House
Mr. Gary Davis

White Bluff Plant
Unit 1

Maximum Operating Ratings Calculations

06-03-1993 15:40:23

MDC CORRECTIONS FOR WHITE BLUFF - 1

MEASURED TEST INPUTS FROM FILE w1051293.mdc

Average Gross Generation	852.50	MWe
Average Auxiliary Usage	37.60	MWe
Average Reactive Power	50.50	MVAR
Average Generator H2 Pressure	64.04	PSIG
Average Condenser Vacuum	25.62	IN-HG
Average Barometric Pressure	29.50	IN-HG
Average Hot Water Temperature from the Condenser	118.92	DEG F
Average Cold Water Temperature to the Condenser	91.98	DEG F
Average Ambient Wet Bulb Temperature	59.98	DEG F
Average Ambient Dry Bulb Temperature	69.76	DEG F
Computed Relative Humidity	56.72	PCT
Average Turbine Throttle Flow	5776569.00	LBM/HR
Average Initial Pressure	2475.06	PSIG
Average Initial Temperature	1007.23	DEG F
Average Hot Reheat Temperature	1008.62	DEG F

BACKPRESSURE CORRECTION RESULTS FOR WHITE BLUFF - 1

Cooling Tower Circulating Water Flow Rate	341000	GPM
Cooling Tower Range	26.94	DEG F
Design Cold Water Temperature	85.40	DEG F
Design Maximum Cold Water Temperature	94.73	DEG F
Average Maximum Condenser Cold Water Temperature	101.31	DEG F
Test Backpressure	3.88	IN-HG
Saturation Pressure @ AMCCWT	4.95	IN-HG
Change in Heat Rate from Test Backpressure to 4.5 In-HG	-0.92	%
Change In Heat Rate From AMCCWT Saturation Pressure to 4.5 In-HG	0.76	%
Change in Heat Rate from Test to AMCCWT Backpressure	1.70	%
Change in KW Load from Test to AMCCWT Backpressure	-1.67	%
BACKPRESSURE CORRECTION DIVISOR	1.0167	

INITIAL PRESSURE CORRECTION RESULTS FOR WHITE BLUFF - 1

The Test Initial Pressure was between the design value (2400 psig) and the 5 % overdesign value (2520 psig). This is the allowable operating range for this unit (per General Electric), therefore NO CORRECTION TO GENERATION WILL BE MADE.

Change in KW Load for Initial Pressure ..... 0.00 %

INITIAL PRESSURE CORRECTION DIVISOR 1.0000

INITIAL TEMPERATURE CORRECTION RESULTS FOR WHITE BLUFF - 1

The Test Initial Temperature is within 1% of the design value (1000 F).
In accordance with the Entergy Test Guidelines, NO CORRECTION WILL BE MADE IN THIS CASE.

Change in KW Load for Initial Temperature ..... 0.00 %

INITIAL TEMPERATURE CORRECTION DIVISOR 1.0000

HOT REHEAT TEMPERATURE CORRECTION RESULTS FOR WHITE BLUFF - 1

The Test HRH Temperature was within 1% of the design value (1000 F).
In accordance with the Entergy Test Guidelines, NO CORRECTION WILL
BE MADE IN THIS CASE.

Change in KW Load for Hot Reheat Temperature ..... 0.00 %

HOT REHEAT TEMPERATURE CORRECTION DIVISOR 1.0000

SUMMARY OF CORRECTION CALCULATIONS FOR WHITE BLUFF - 1

Product of Correction Factors	1.0167
Test Gross Generation	852.50 MW
Corrected Gross Generation	838.47 MW
Test Net Generation	814.90 MW
Corrected Net Generation	800.87 MW
MAXIMUM CAPABILITY (per summer test guidelines)	801 MW

White Bluff Plant
Unit 2

Maximum Operating Ratings Calculations

06-03-1993 15:40:35

MDC CORRECTIONS FOR WHITE BLUFF - 2

MEASURED TEST INPUTS FROM FILE w2051393.mdc

Average Gross Generation	879.00	MWe
Average Auxiliary Usage	34.30	MWe
Average Reactive Power	22.22	MVAR
Average Generator H2 Pressure	69.15	PSIG
Average Condenser Vacuum	26.00	IN-HG
Average Barometric Pressure	29.50	IN-HG
Average Hot Water Temperature from the Condenser	114.63	DEG F
Average Cold Water Temperature to the Condenser	87.04	DEG F
Average Ambient Wet Bulb Temperature	62.76	DEG F
Average Ambient Dry Bulb Temperature	80.40	DEG F
Computed Relative Humidity	36.43	PCT
Average Turbine Throttle Flow	5947420.00	LBM/HR
Average Initial Pressure	2524.97	PSIG
Average Initial Temperature	982.65	DEG F
Average Hot Reheat Temperature	1000.73	DEG F

BACKPRESSURE CORRECTION RESULTS FOR WHITE BLUFF - 2

Cooling Tower Circulating Water Flow Rate	341000	GPM
Cooling Tower Range	27.59	DEG F
Design Cold Water Temperature	88.63	DEG F
Design Maximum Cold Water Temperature	96.81	DEG F
Average Maximum Condenser Cold Water Temperature	95.22	DEG F
Test Backpressure	3.50	IN-HG
Saturation Pressure @ AMCCWT	4.35	IN-HG
Change in Heat Rate from Test Backpressure to 4.5 In-HG	-1.32	%
Change In Heat Rate From AMCCWT Saturation Pressure to 4.5 In-HG	-0.22	%
Change in Heat Rate from Test to AMCCWT Backpressure	1.11	%
Change in KW Load from Test to AMCCWT Backpressure	-1.10	%
BACKPRESSURE CORRECTION DIVISOR	1.0110	

INITIAL PRESSURE CORRECTION RESULTS FOR WHITE BLUFF - 2

The Test Initial Pressure was greater than the 5 % overdesign value (2520 psig). This is above the recommended operating range for this unit (per General Electric). Correction from the test value down to the 5 % overdesign value will cause a decrease in in capability. In accordance with the Entergy Test Guidelines, THIS CORRECTION WILL BE MADE.

Reference General Electric Drawing GEZ-3614

Change in KW Load from Test to Standard Initial Pressure	5.10 %
Change in KW Load from 5% Overpressure to Standard Initial Pressure	4.90 %
Change in KW Load from Test to 5% Overpressure	-0.19 %
INITIAL PRESSURE CORRECTION DIVISOR	1.0019

INITIAL TEMPERATURE CORRECTION RESULTS FOR WHITE BLUFF - 2

The Test Initial Temperature is less than the design value (1000 F), by more than 1%. Correction upward would cause a decrease in unit capability. In accordance with the Entergy Test Guidelines, THIS CORRECTION WILL BE MADE.

Correction will be made from the Test Initial Temperature of 982.65 F to the corrected value of 990 F (the lower limit of the 1% margin allowed by the Entergy Test Guidelines.

Reference General Electric Drawing GEZ-3615

Change in KW Load from Test to Standard Initial Temperature	0.17 %
Change in KW Load from 990 F to Standard Initial Temperature	0.10 %
Change in KW Load from Test to 990 F Initial Temperature	-0.07 %
INITIAL TEMPERATURE CORRECTION DIVISOR	1.0007

HOT REHEAT TEMPERATURE CORRECTION RESULTS FOR WHITE BLUFF - 2

The Test HRH Temperature was within 1% of the design value (1000 F).
In accordance with the Entergy Test Guidelines, NO CORRECTION WILL
BE MADE IN THIS CASE.

Change in KW Load for Hot Reheat Temperature ..... 0.00 %

HOT REHEAT TEMPERATURE CORRECTION DIVISOR 1.0000

SUMMARY OF CORRECTION CALCULATIONS FOR WHITE BLUFF - 2

Product of Correction Factors	1.0137
Test Gross Generation	879.00 MW
Corrected Gross Generation	867.11 MW
Test Net Generation	844.70 MW
Corrected Net Generation	832.81 MW
MAXIMUM CAPABILITY (per summer test guidelines)	833 MW

Confidential Business Information

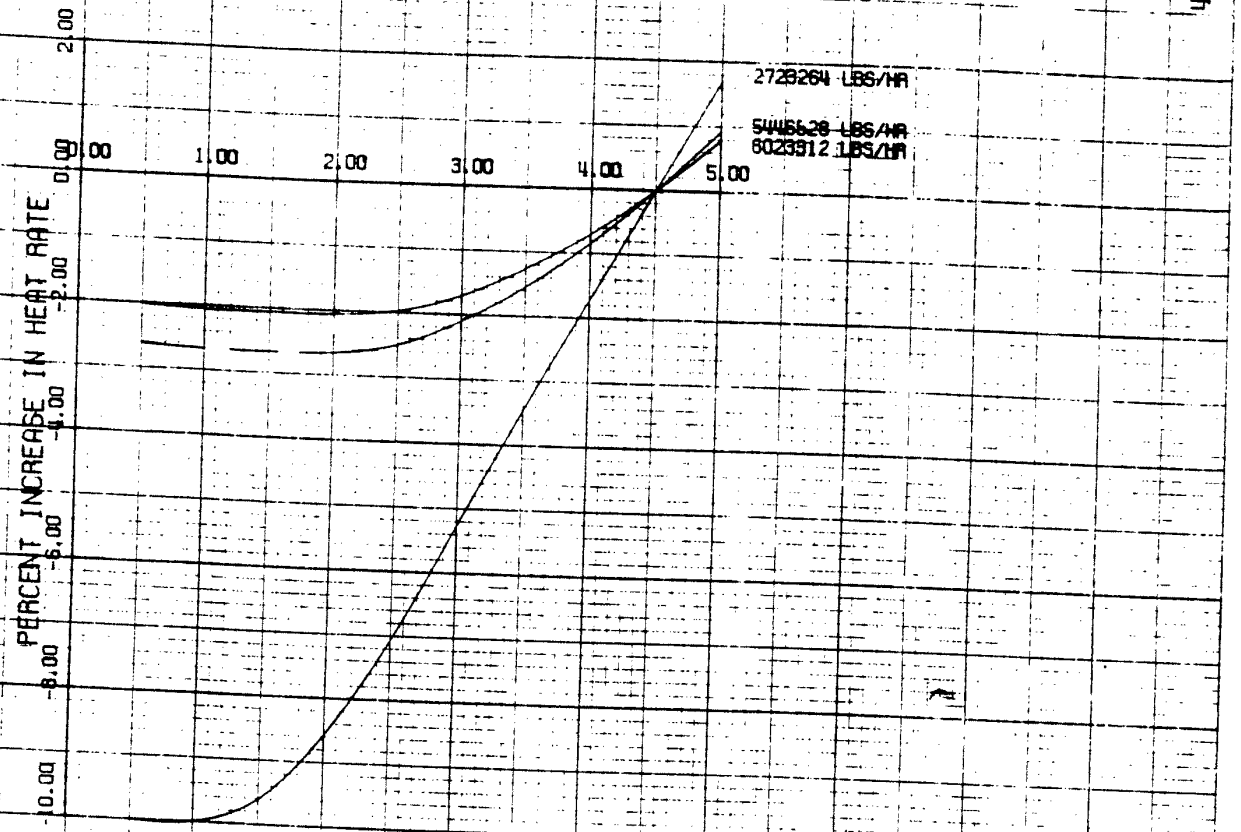
Claim Withdrawn. Contains No CBI. 06/29/2016_YD

WB_00007669

EXHAUST PRESSURE CORRECTION FACTORS

800,000 KW AT 4.5 IN. HG ABS. 0 PCT. NU
TC4F-33.5 IN. LSB 3600 RPM
2400 PSIG 1000F/1000F

413 HB 650



EXHAUST PRESSURE - IN. HG. ABS.

METHOD OF USING CURVE

THESE CORRECTION FACTORS ASSUME CONSTANT CONTROL VALVE OPENING

THE PERCENT CHANGE IN KW LOAD FOR VARIOUS EXHAUST PRESSURES IS EQUAL TO (MINUS) PCT INCREASE IN HEAT RATE)100/(100 + PCT INCREASE IN HEAT RATE)

THESE CORRECTION FACTORS ARE NOT GUARANTEED

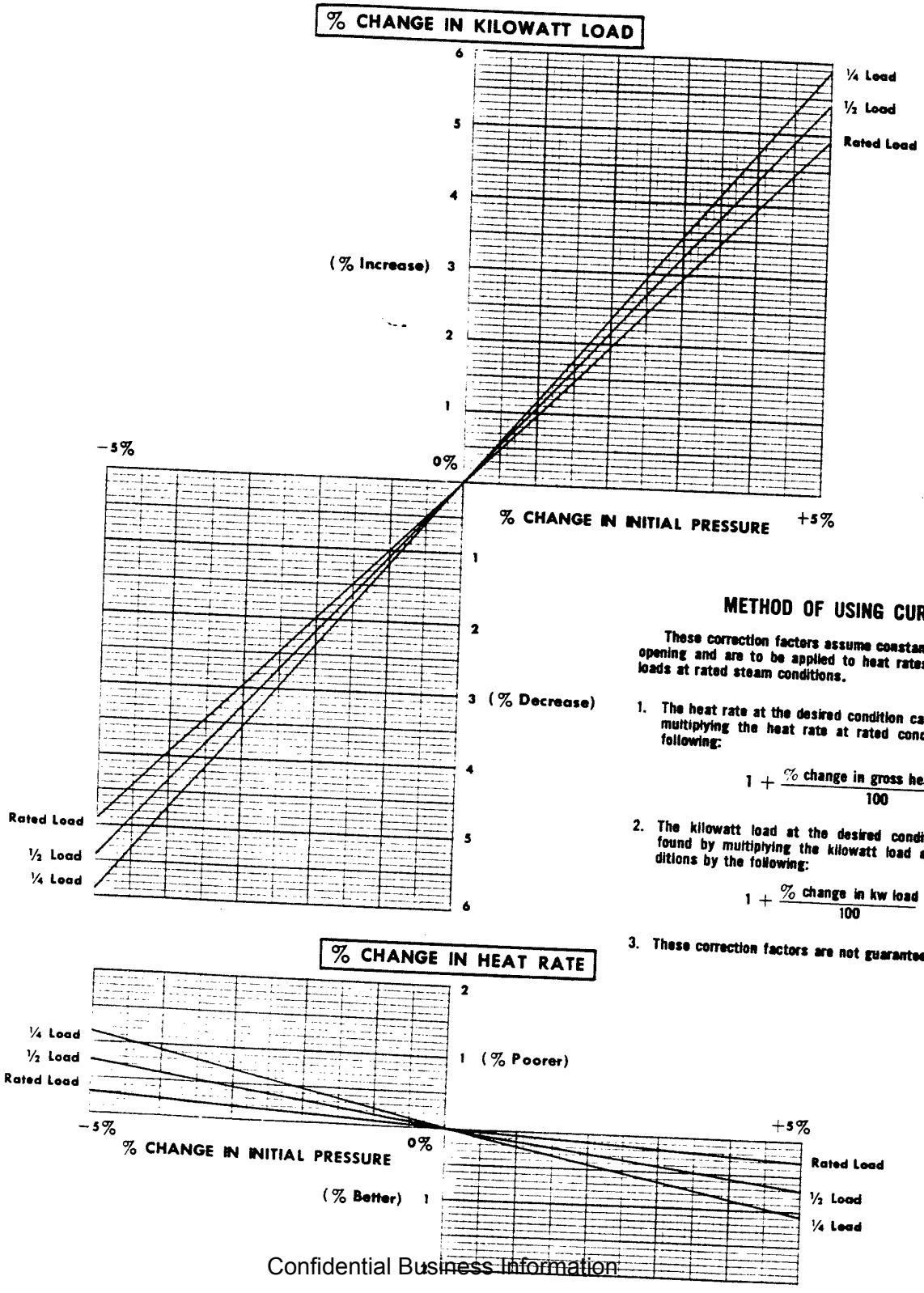
THE CURVE AT A THROTTLE FLOW OF 6023312 IS AT 5 PCT. OVERPRESSURE OR 2520 PSIG.

413 HB 650

GENERAL ELECTRIC COMPANY, SCHENECTADY, NEW YORK

INITIAL PRESSURE CORRECTION FACTORS

FOR SINGLE REHEAT UNITS



METHOD OF USING CURVES

These correction factors assume constant control valve opening and are to be applied to heat rates and kilowatt loads at rated steam conditions.

1. The heat rate at the desired condition can be found by multiplying the heat rate at rated conditions by the following:

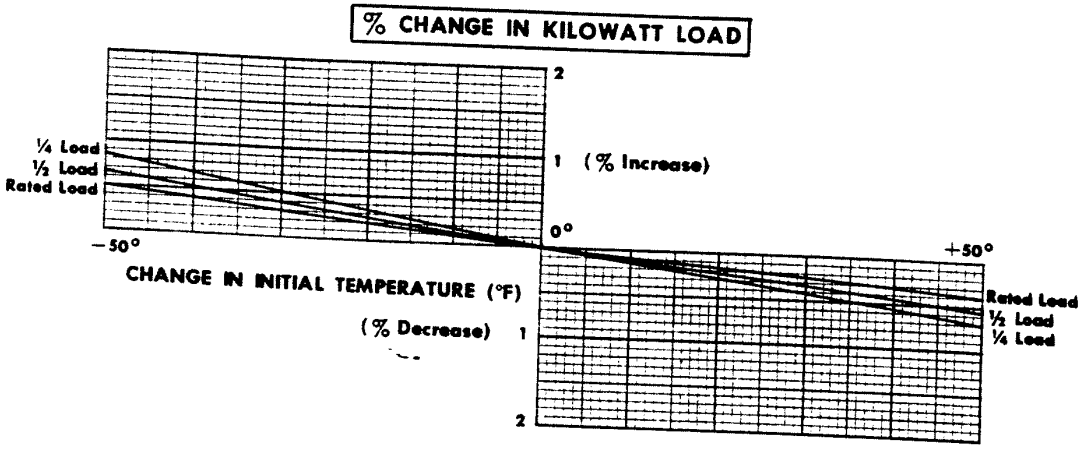
$$1 + \frac{\%\ \text{change in gross heat rate}}{100}$$

2. The kilowatt load at the desired conditions can be found by multiplying the kilowatt load at rated conditions by the following:

$$1 + \frac{\%\ \text{change in kw load}}{100}$$

3. These correction factors are not guaranteed.

INITIAL TEMPERATURE CORRECTION FACTORS
FOR SINGLE REHEAT – SUBCRITICAL PRESSURE UNITS



METHOD OF USING CURVES

These correction factors assume constant control valve opening and are to be applied to heat rates and kilowatt loads at rated steam conditions.

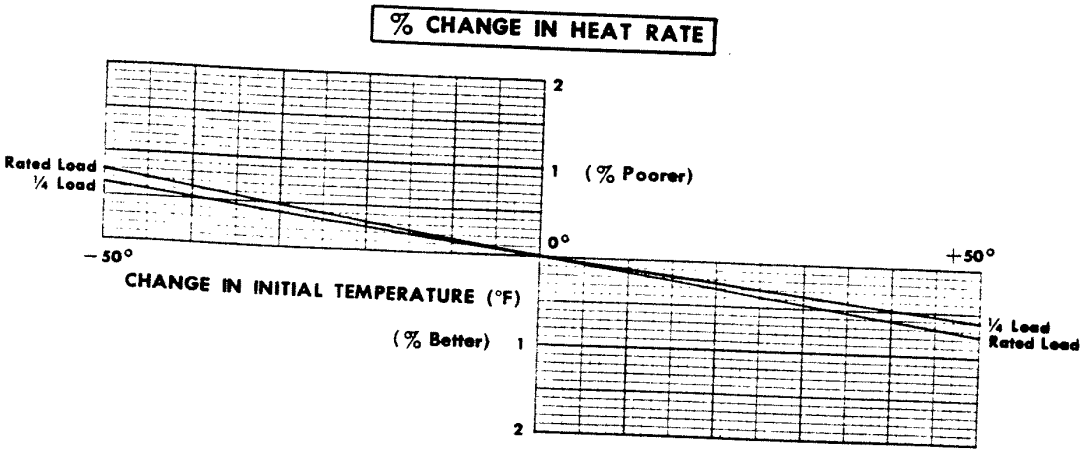
1. The heat rate at the desired condition can be found by multiplying the heat rate at rated conditions by the following:

$$1 + \frac{\%\ \text{change in gross heat rate}}{100}$$

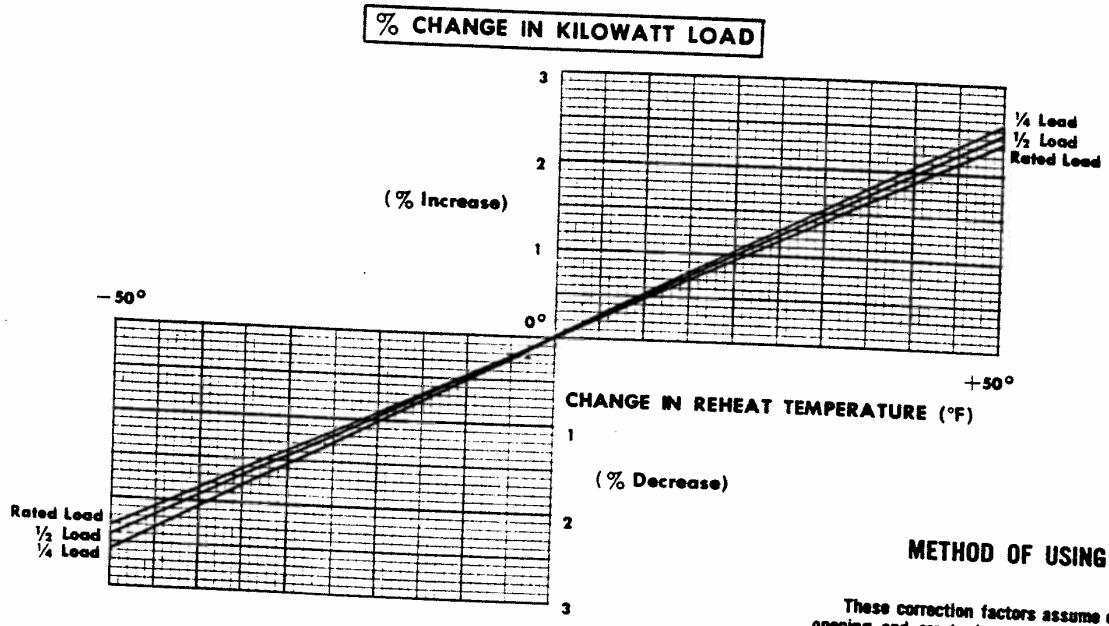
2. The kilowatt load at the desired conditions can be found by multiplying the kilowatt load at rated conditions by the following:

$$1 + \frac{\%\ \text{change in kw load}}{100}$$

3. These correction factors are not guaranteed.



REHEAT TEMPERATURE CORRECTION FACTORS
FOR SINGLE REHEAT UNITS



METHOD OF USING CURVES

These correction factors assume constant control valve opening and are to be applied to heat rates and kilowatt loads at rated steam conditions.

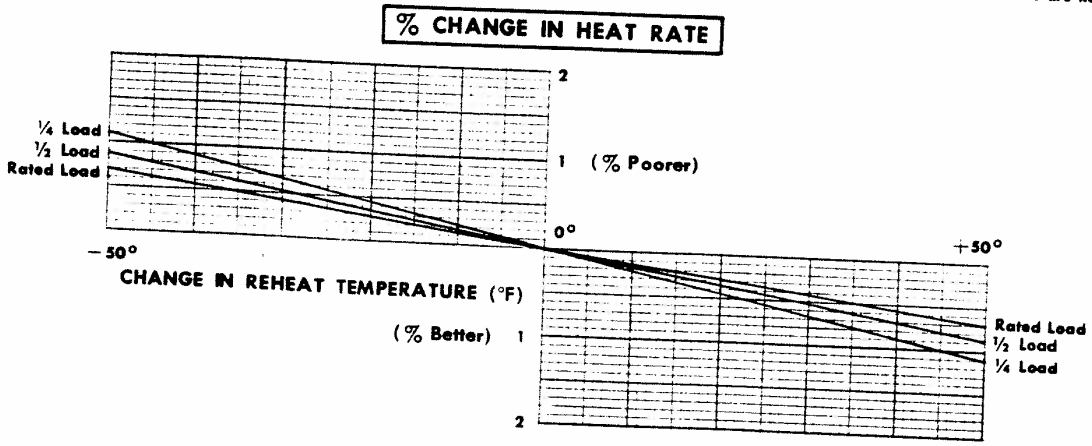
1. The heat rate at the desired condition can be found by multiplying the heat rate at rated conditions by the following:

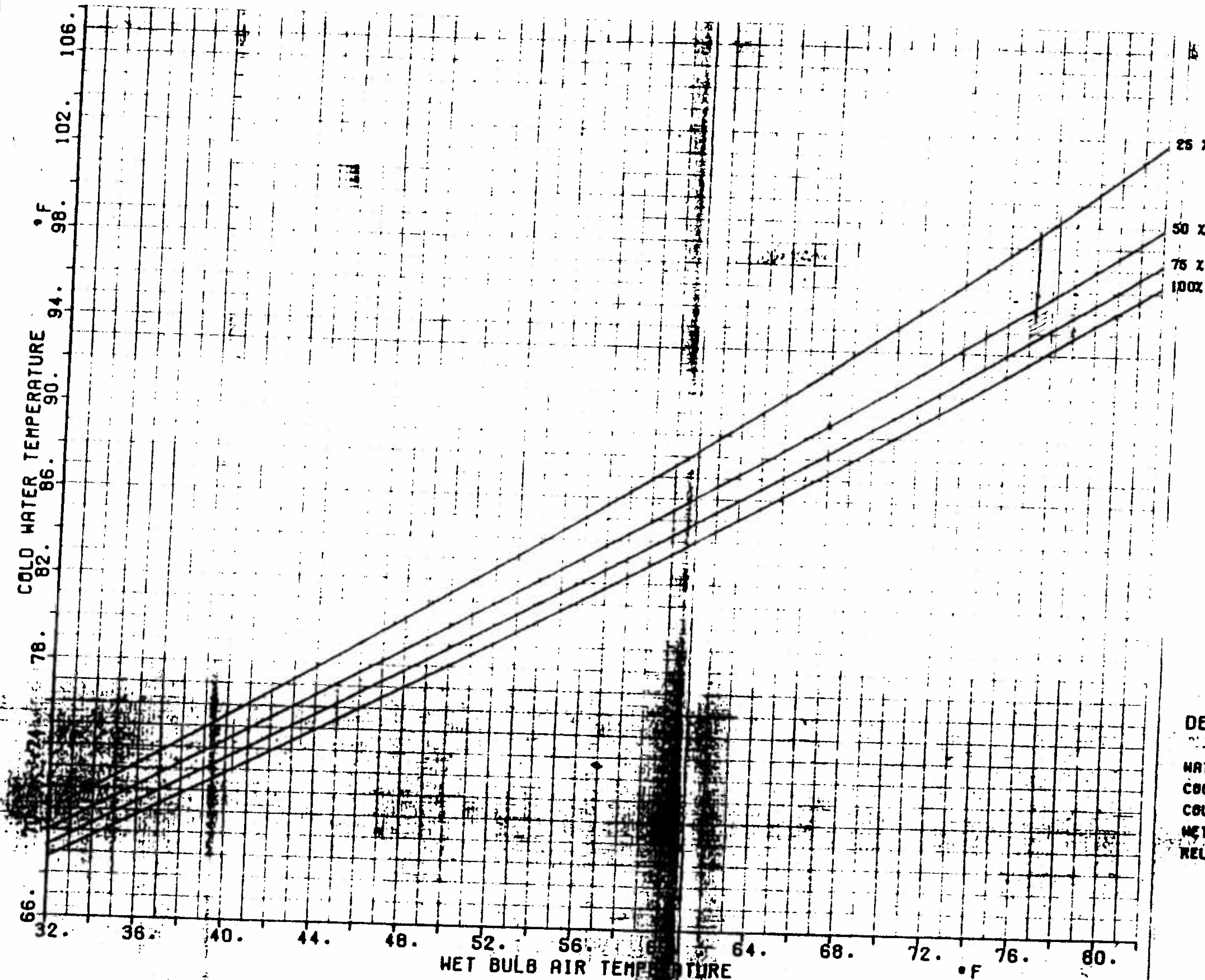
$$1 + \frac{\%\ \text{change in gross heat rate}}{100}$$

2. The kilowatt load at the desired conditions can be found by multiplying the kilowatt load at rated conditions by the following:

$$1 + \frac{\%\ \text{change in kw load}}{100}$$

3. These correction factors are not guaranteed.





NATURAL DRAFT COOLING TOWER

PERFORMANCE CURVES COLD WATER TEMPERATURE IN FUNCTION OF WET BULB AIR TEMPERATURE AND RELATIVE HUMIDITY

WATERFLOW	341000. USGPM
RANGE	25.00 °F

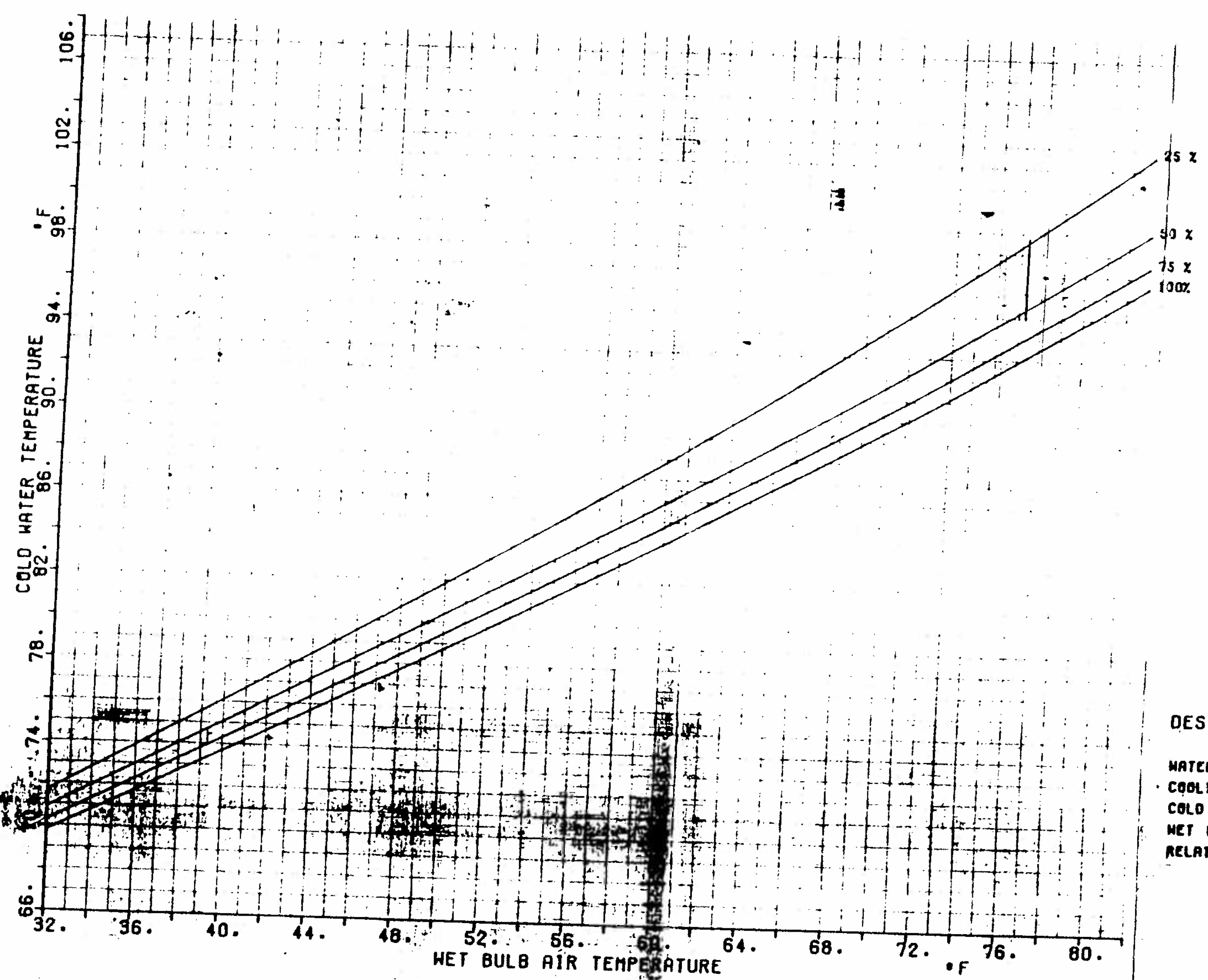
DESIGN CONDITIONS

WATERFLOW	310000.	USGPM
COOLING RANGE	28.16	°F
COLD WATER	95.00	°F
WET BULB	78.00	°F
RELATIVE HUMIDITY	50	%

RESEARCH-COTTRELL INC.
HAMON COOLING TOWER DIVISION
BOUND BROOK, NEW JERSEY 08805

WHITE BLUFF STATION
CTP 5207 N2
FEB 11.74

708



DESIGN CONDITIONS

WATERFLOW	310000.	USGPM
COOLING RANGE	28.10	°F
COLD WATER	85.00	°F
WET BULB	78.00	°F
RELATIVE HUMIDITY	50	%

NATURAL DRAFT COOLING TOWER

PERFORMANCE CURVES COLD WATER TEMPERATURE IN FUNCTION OF WET BULB AIR TEMPERATURE AND RELATIVE HUMIDITY

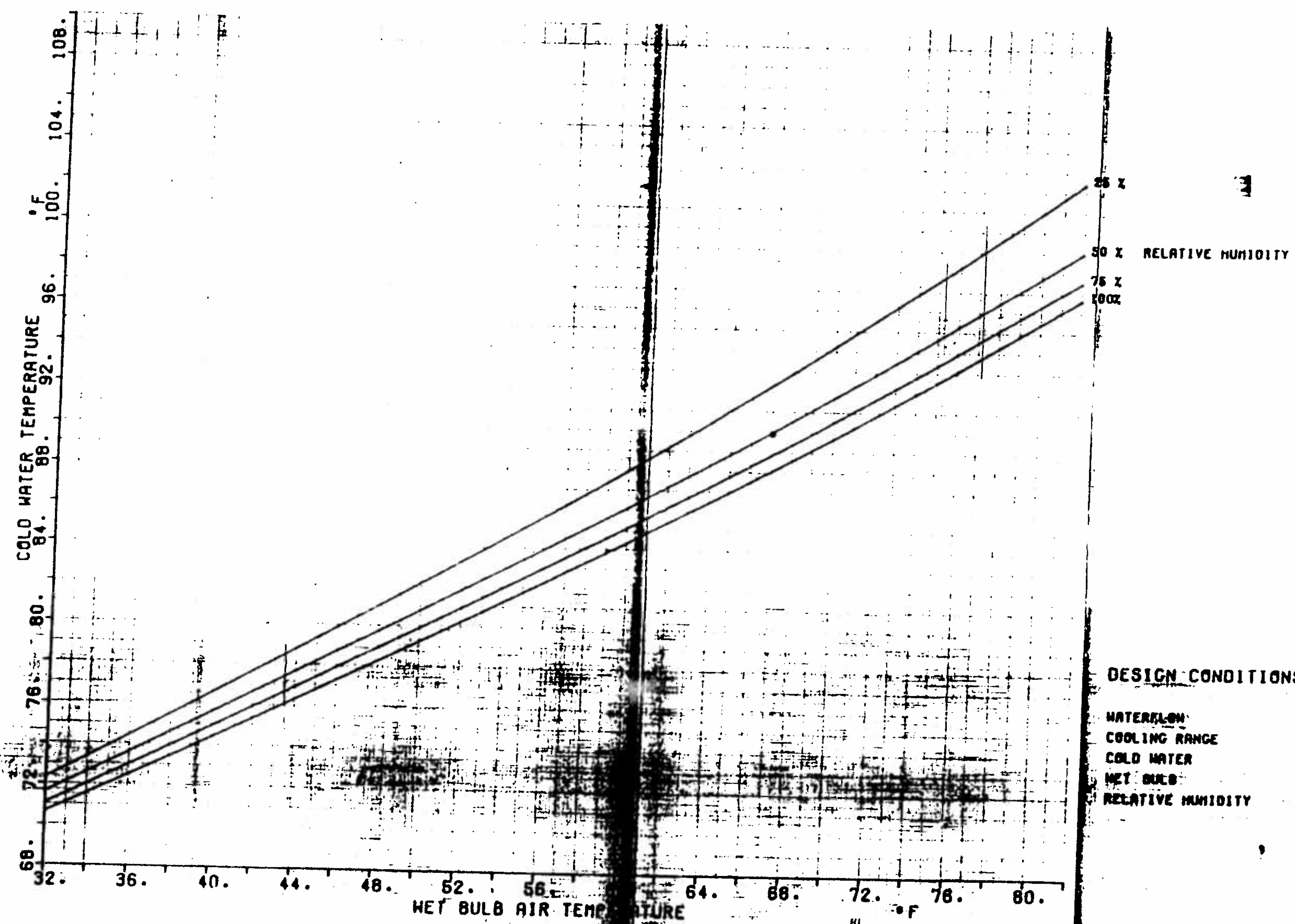
WATERFLOW	341000.USGPM
RANGE	28.10 °F

RESEARCH-COTTRELL INC.
HAMON COOLING TOWER DIVISION
BOUND BROOK.NEW JERSEY 08805

WHITE BLUFF STATION
CTP 5207 N2

FEB.11.74

707



DESIGN CONDITIONS

WATERFLOW	310000.	USGPM
COOLING RANGE	28.10	°F
COLD WATER	96.00	°F
WET BULB	78.00	°F
RELATIVE HUMIDITY	60	%

NATURAL DRAFT COOLING TOWER

PERFORMANCE CURVES COLD WATER TEMPERATURE IN FUNCTION
OF WET BULB AIR TEMPERATURE AND RELATIVE HUMIDITY

WATERFLOW	341000.USGPM
RANGE	31.00 °F

RESEARCH-COTTRELL INC.
HAMON COOLING TOWER DIVISION
BOUND BROOK, NEW JERSEY 08805

WHITE BLUFF STATION
CTF 5207 N2

709